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Energy and Mines
Mines Branch

Open File Report OF87-11

AN UPDATE SUMMARY AND EVALUATION OF GEOPHYSICAL DATA FROM OPEN ASSESSMENT FILES OF THE FLIN FLON - SNOW LAKE GREENSTONE BELT (NTS SHEETS 63K (N1/2) AND 63J/12, 13)

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ABSTRACT

This report is a compilation and interpretation of geophysical data contained within 450 open assessment files of the Minerals Division. It has been prepared to assist exploration and mining companies in their search for base metal deposits in the Flin Flon — Snow Lake area.

Ground and airborne geophysical surveys have been interpreted in a qualitative manner, have been plotted on 1:50 000 geological maps, and are summarized in tables together wtih recommendations for further work, if warranted.

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INTRODUCTION

The objective of this report is to present geophysical data contained in open assessment files of the Minerals Division, in a format which will serve as a guide for mining companies contemplating or already carrying out exploration in the Flin Flon — Snow Lake area.

Scope

The analysis, interpretation and compilation of geophysical data from open assessment files is being carried out to assist in evaluating the mineral potential of various areas of Manitoba. Approximately 750 surveys were evaluated from assessment files dealing with NTS 63J/12, 13 and the northern half of NTS sheet 63K. The data presented in this report are restricted to the 450 open assessment files. The data in this report cover the period 1946 to 1984.

This report is an open file geophysical report of the work carried out by various mining companies containing information with respect to anomaly interpretation, cause of the anomalies with reference to the drill logs, ground follow-up of airborne anomalies, and recommendations for further work. The northern half of NTS 63K includes the reports that came open since Open File Report 78-2 was released and also includes NTS 63J/12 and 13.

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METHODOLOGY

For the purposes of this report the surveys have been assessed in a qualitative manner as this is sufficient to give an indication of the relative importance of an anomaly. Qualitative analysis of an anomaly involves determination of the strike, length, strength, direction of dip, and width, whereas quantitative analysis will, in addition to the above, involve determination of the angle of dip, depth, conductivity thickness product, and would entail using master curves, phasor diagrams, tables, nomograms, computer programs, etc. In some of the older surveys quantitative analysis cannot be undertaken on account of the incomplete data provided by the companies; the more recent surveys submitted have a better data base.

Ground Surveys

The method of handling the ground data involved direct interpretation on the maps in the assessment files, which are mostly on a scale of 1 inch to 200 or 400 feet. The interpreted data were transferred to half-tone geological 1:50 000 base maps. These latter maps, showing all the relevant geophysical information, drill hole locations, the assessment file number and the areas covered by the surveys, are accompanied by tables in this report giving the assessment file number, area location, name of the company that registered the claim block, the year in which the survey was carried out, geophysical methods used, the instruments employed and their specifications, anomalies and their characteristics, past drilling activity, cause of the anomaly, recommendations for further geophysical work, if warranted, and comments on the geology. The geological and topographical environment is taken into consideration in assessing geophysical anomalies.

Most of the ground geophysical data in the assessment files have been obtained from magnetic surveys or from some form of electromagnetic (E.M.) survey. An attempt has been made to standardize the results of the different geophysical surveys in a manner which will allow comparison of the anomaly intensity produced by systems measuring the same physical parameters. Magnetic surveying being a passive method, i.e. measurements are carried out in natural fields, provides data which are directly comparable; however, difficulties arise in comparing E.M. surveys, as they are active methods whereby transmitters with varying power output and frequencies are used to artificially create primary fields. In addition the coil configuration and coil separation can be varied.

The depth of exploration reached by an E.M. survey is dependent on the instrument's specifications, method of conducting the survey and the geological and topographical environments. For example the higher the frequency employed the less the penetration of the E.M. waves. Also the lower the resistivity of the material the less the depth of penetration. Therefore, a high frequency unit may produce false conductors in swampy areas. The coil separation also affects the depth of penetration. A larger coil separation will increase the depth of penetration of the E.M. waves. The coil configuration plays a very important part in determining how well the E.M. waves couple with conducting bodies. The primary electromagnetic waves emanating from a horizontal transmitter couple very well with flat-lying conducting bodies which makes the horizontal loop E.M. method very susceptible to the effects of lake bottom clays, conducting overburden, etc. Therefore, in surveying over the lakes the vertical loop E.M. would be a more effective exploration method. On the other hand, the ratio of the in-phase to the quadrature component (obtainable with the horizontal loop) would be a better method of interpreting the strength of the conductor.

All, or most of these factors have been taken into consideration before assessing an anomaly to one of several arbitrarily chosen levels of intensity, namely strong, medium or weak.

Appendix A lists the specifications of the different instruments used in the area (Hood, 1972, 1977 and 1982). The specifications of instruments included in Tables 1 to 10 are as given in the reports in the assessment files. The sequence of assessment files in Tables 1 to 10 is based on areas which have been sythesized regardless of claim boundaries; they are listed according to assessment file numbers with the highest number being listed last. The tables correspond with Maps 1A to 10A. A list of the abbreviations and their meaning is included in Appendix B.

Airborne Surveys

Airborne surveys are essentially a reconnaissance method and therefore qualitative interpretation is sufficient in handling the data. Due to time restriction the tapes were not checked to determine whether all the anomalies have been recognized and transferred onto the final map (in many surveys the tapes were not submitted). Therefore, the company maps in the assessment files outlining the anomalies were used exclusively in the interpretation and in selecting anomalies that may have been overlooked during subsequent surface exploration.

Most of the airborne geophysical data in the assessment files have been obtained from magnetic, or some form of E.M. survey. In classifying the anomalies as strong, medium or weak, the system and the frequencies employed have been taken into consideration. An evaluation of some of the systems has been carried out by Paterson (1970), and Bosschart and Pemberton (1969).

The airborne anomalies from the company maps have been transferred to half-tone aeromagnetic 1:50 000 base maps. These latter maps (Maps 1B to 10B), show all the relevant geophysical surveys and are accompanied by a table (Table 11, this report) giving the assessment file number, area location, name of the company for whom the survey was carried out, year the survey was flown, flight altitude and line spacing, the system and specifications employed, anomalies and their characteristics, ground follow-up activity and comments. Because the magnetic surveys constitute a passive method, they are directly comparable and conform with the governments's aeromagnetic maps. Therefore, these latter maps were used as a base as they have continuous coverage over the area, and the flight altitude, line spacing and contour interval are constant.

CONCLUSIONS

The analysis, interpretation and compilation of the geophysical data in the open assessment files, available in the Exploration Services Section of the Minerals Division, will be a useful guide for companies contemplating and those already carrying out exploration in the Flin Flon — Snow Lake area.

Because only open assessment files have been used in this analysis, some recommendations for further work may have been carried out, but are either in the confidential files or in the company's internal files. As the confidential files come open the data will be interpreted and incorporated into the open assessment file compilation.

Many of the older assessment surveys concentrated on base metal exploration; therefore, the methods employed and drill core logging did not take precious metals into account. Much of the drill core is stored in the Department's drill core libraries and can be inspected by request.

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TABLE 1 — TRAMPING LAKE AREA 63K/9 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90235	Tramping Lake Area — 63K-9, 16	Jay Kay Expl.	1984	1000 Hz., Broadside. No condrs.						No work warranted.	
90231	Tramping Lake 63K-9, 63K-16	Hudson Bay	1985		Loop Frame, 3600 Hz., 2 med. and 1 wk. condr.			The med. condrs. have been drilled.	Py, Po, tr Cp, tr Sp.	Lower freq. E.M. survey warranted.	
90238	Morgan Lake 63K-9, 16	Kerr-Addison	1964	Crone JEM, 1800 Hz. No condrs.						No work warranted.	Probably a continuation of the rock sequence hosting the massive sulphide deposits in the Anderson Lake — Stall Lake area.
91947	Tramping Lake 63K-9, 63K-16	Hudson Bay	1964		2400 Hz. No condrs.					No work warranted.	
91633	Tramping Lake	Granges Expl.	1975		ABEM, 2400 Hz., Coil sep. 300'. 1 wk. condr.			The condr. has been drilled.	2'' Py seam.	No work warranted.	
90233	Tramping Lake Area — Mostly on 63K-16	Newkirk Mining	1956	Sharpe unipod 1000 Hz. 1 med. condr.		Sharpe A-2, Sen. 10 /sc. div. 2 small anomalies of 200γ.	Resistivity. Two resistivity anomalies.		Resistivity anomaly - argillite (90234)	No work warranted.	Granites and argillites in the area of the condr. The granitic rocks probably contain enclaves of argillites (Unit 4).
90236	Tramping Lake 63K-9, 16	Selco Expl.	1957		Loop Frame, 3600 Hz. 2 str., 2 med. and 2 wk. condrs.					Lower freq. E.M. survey warranted.	Unit 3 on this map is tentatively correlated with the upper sequence of

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90241	Tramping Lake 4 claim blocks	Conwest Expl.	1964		ABEM, 3520 Hz. 1 str. condr. in northern claim block.			The condr. has been drilled.	200' of massive sulphides and Gf in an iron formation. (90242)	Lower freq. E.M. survey warranted.	Gale (1977). Rock units stratigraphically underlying unit 3 are considered to be correlated with the rocks hosting Cu and Zn deposits in the Snow Lake area. The major anomalies on Tramping Lake are probably due to earthy pyrite and/or pyrrhotite. Polymetallic deposits could occur either adjacent to the highly conductive earthy pyrite zones or in the immediate stratigraphically underlying rocks. Detailed geological mapping of the Tramping Lake area is warranted to establish stratigraphic correlations.
92174	Tramping Lake	Straus Minerals	1973				Turam 220 and 660 Hz. Coil sep. 100'. Long str. and med. condrs.	The condrs. have been drilled.	The southern part of the eastern condr.-mass. sulp. and Gf. The central part — Py, Po, Cu, Zn, Ag, Au. The western condr.-Gf, Py. The Berry Creek condr. Py, Po, Cp.	More work warranted on the central condrs. and the Berry Creek condr.	
92342	Tramping Lake	Granges	1980		Max. Min. II 1777 Hz. Coil sep. 400'. Same condrs. as 92174					More work warranted on the central condrs. and the Berry Creek condr.	
90201	North of NTS sheet	Hudson Bay	1965		Ronka Mk III 2400 Hz. Coil sep. 200'. 1 str. and 1 med. condr.			The condrs. have been drilled.	Po, Py, 0.5% Cp. tr. Sp over 10' in both condrs.	No work warranted.	

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90232	Extreme north of 63K-9, 63K-16	Selco Expl.	1957	1000 Hz. Broadside. No condrs.						No work warranted.	Geologically favourable area since it contains unit 3 (the 'Upper sequence' of Gale, 1977) and unit A which is host to Zn-Cu massive sulphide deposits in the Chisel Lake area (Gale, 1977). The major structure in the area, including the Morgan Lake area to the North is a syncline. Locally tight folds with approximately north plunging axes can be expected to repeat mineralized horizons in this area (cf. Martin, 1966).
91964	Extreme north of 63K-9, and 63K-16	Granges Expl.	1973		ABEM. 2400 Hz., Coil sep. 300'. 1 med. and 2 wk. condrs. Also 3 med. condrs. on 1 line each.			The med. condrs. have been drilled.	The 3 one line med. condrs. Gf, Py, Po. Tr. Cp in one hole. No logs for holes on the long med. condr.	Work warranted on the wk. condrs.	
90254	Reed Lake	R.G. Crosby	1957		Loop Frame, 3600 Hz. 1 str., 1 med. and 1 wk. condr.					Lower freq. E.M. survey warranted.	
91602	Reed and Tramping Lake	Hudson Bay	1975				Turam. Many str. condrs.	The condrs. have been drilled.	Heavy Gf, Py	No work warranted.	
91847	Reed Lake Area 63K-9, 16 Claim Block A	Granges Expl.	1973-1974		2400 Hz., Coil sep. 300'. 2 str. condrs.			Both the condrs. have been drilled.	Gf, Py.	No work warranted.	Felsic and mafic volanic rocks. Unit A is commonly fragmental and

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	Claim Block B				1 str. and 1 wk. condr.			The str. condr. has been drilled.	Nearly solid Po. 2% Py, 5% Gf.	No work warranted.	rhyolite and the presence of Unit A rocks in the north-east corner of Reed Lake suggests a mixed mafic-felsic sequence; however present knowledge of the area does not permit a stratigraphic correlation to be made with the stratigraphy of either the Spruce Point Cu-Zn deposit to the southwest or the Reed Lake Cu deposit to the west. Anomalies in Claim Blocks 91847 A, B and G could conceivably be associated with enclaves of volcanic rocks within the granitic masses.
	Claim Block C				No condrs.					No work warranted.	
	Claim Block D				1600 Hz., Coil sep. 400'. No condrs.					No work warranted.	
	Claim Block E				2400 Hz., Coil sep. 300'. 1 wk. condr.					Lower freq. E.M. warranted.	
	Claim Block F				1600 Hz., Coil sep. 400'. No condrs.					No work warranted.	
	Claim Block G				2400 Hz., Coil sep. 300'. 2 short str. condrs.			The condrs. have been drilled.	Po, Py, tr Cp.	No work warranted.	
	Claim Block H				2400 Hz., Coil sep. 300'. 2 str. and 1 med. condr.					Lower freq. E.M. warranted.	

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	Claim Block I				1600 Hz., Coil sep. 400'. No condrs.					No work warranted.	
	Claim Block J				2400 Hz., Coil sep. 300'. 5 str., 1 med. and 1 wk. condr.			3 str. and 1 med. condrs. have been drilled.	Gf, Py, Po	More work warranted on remaining condrs.	
91850	Reed Lake (West grid)	Fracoeur Mines	1957	1000 Hz. Unipod type. 2 str., 4 med., and 6 wk. condrs.				One str., 2 med. and 2 wk. condrs. drilled.	Py, Po.	More work warranted.	
	(East grid)			1 str., 5 med., and 4 wk. condrs.				The str. condr. drilled.	Py, Po. 5' of 0.52% Cu and 0.63% Ni	More work warranted.	
91945	Reed Lake	Hudson Bay	1972		No report.			3 holes drilled to test one condr.	Po, Py		
92058	Reed Lake	Bruce Dunlop	1976		EM-17 820 Hz. Coil sep. 400'. No condrs.	MF-1 One 800-γ anomaly in NW and one 200-γ anomaly				No work warranted.	
92528	Reed Lake	Hudson Bay	1974				Turam 660 Hz 4 med. condrs.	One condr. has been drilled.	Siltstone	More work warranted.	

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CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
92556	Reed Lake	Esso Minerals	1979		Max. Min. 888 Hz. Coil sep. 400'.						
	Grid 'A'				2 med. condrs.			One condr. has been drilled.	Gf, Py.	More work warranted.	
	Grid 'B'				No condrs.					No work warranted.	
	Grid 'C'				Many str. and med. condrs.			6 med. condrs. drilled.	Po, Py, Gf.	No work warranted.	
92238	Reed Lake	Hudson Bay	1974			Askania GFZ torsion mag. No. mag. anomalies.				No work warranted.	
92436	Reed Lake	Hudson Bay	1982				Turam 660 Hz. 1 str. condr.	The condr. has been drilled.	Gf, Py.	No work warranted.	
92477	Reed Lake	Hudson Bay	1972				Turam 660 Hz. 4 str. condrs.	One condr. has been drilled.	Gf, Py.	More work warranted.	
90247	Jackfish Lake	INCO	1951			Sharpe, 42.5γ /sc. div. Numerous anomalies ranging from 1500 to 5000γ .		The anomalies have been drilled.	Py, Po, Cp, Ni. Best intersection 4.2' of 2.4% Cu, 2.34% Ni (90256)	Borehole geophysics warranted.	Very heavy drilling in the claim block. Geologic modelling warranted. Gabbroic complex with Cp and pentlandite, massive Po; minor volcanic

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CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90261	Jackfish Lake	Mirado Nickel Mines	1956-1957	No specs. Many str., med. and wk. condrs. co-inciding with the mag. anom-alies of 90247.				The condrs. have been drilled.	Py, Po, Cp, Ni. (90256)	Borehole geophysics warranted.	rocks up to 2% Cu, and 3.5% Ni; Po, Cp in norite; near solid sulphide sections (Po, Py, Gf) from 1' to 10' thick. Extensive shallow drilling on a number of surface showings.
90250	Reed Lake 63K-9, 10, 15 & 16	Hudson Bay	1957		No specs. 1 med. condr.					E.M. should be redone.	
90245	Reed Lake	Northern Canada Mines Ltd.	1957	No specs. 1 str. condr.				The condr. has been drilled.	80' of 15% Py, 7' of Gf.	No work warranted.	Formational sulphides in volcanogenic sediments. Along strike to the north sulphide formations (Py, Po, Gf) up to 50' thick are present in volcanic rocks and volcanogenic sediments.
90251 90252	Reed Lake	Hudson Bay	1956		Loop frame. Many str. & 1 med. condr.			Most of the condrs. have been drilled.	Py, Po. Southern condrs. Seds., Py.	No work warranted.	
92569	Reed Lake	Hudson Bay	1983		Max. Min. 1777 Hz. Coil sep. 400'. 1 str. condr.			The condr. has been drilled. (90245)		No work warranted.	

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CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
92570	Reed Lake	Hudson Bay	1982		Max. Min. 1777 Hz. Coil sep. 600'. 1 str. condr.			The condr. has been drilled. (92683)	Po, Py, Gf.	No work warranted.	
91612	North of sheet	Hudson Bay	1973		Ronka MK III 2400 Hz. Coil sep. 300'. No condrs.					No work warranted.	
91707	Southern part NTS sheet 10 claim blocks	Parmlee Mining	1957	McPhar., 1000 Hz. Many str. and med. condrs. south of Reed Lake. Many wk. condrs. around Farewell Lake.				One condr. has been drilled.	Gf. schist Py, Po. (90244)	More work warranted.	Geophysical anomalies indicate a continuation of the regional south-westerly strikes of the Tramping Lake area.
91735	Farewell Lake Area — 10 Claim blocks	Canadian Nickel	1961	1000 Hz. Many str., med. and wk. condrs.		Sharpe. 8 of the claim block condrs. have mag. assoc. between 100 to 500γ. One condr. has a mag. assoc. of 4000γ.		Most of the str. condrs. have been drilled.	Gf, Py, Po, Iron formation intersected in most of the holes.	Drilling warranted on the remaining str. condrs.	

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CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
92179 92180 92181	South of Reed Lake	Granges Expl.	1976		Max. Min. 880 Hz. Coil sep. 600'. 3 str. and 1 med. condr.	MF-1 2 N.W. mag. trends of 600γ.		1 str. and 1 med. condr. have been drilled.	Py, Po, Gf.	More work warranted.	
92224	South of Reed Lake Grid 'A'	Manitoba Gov't.	1976	McPhar VHEM 1600 Hz. Long str. and med. condrs.		MF-1 One anomaly.		Some of the condrs. have previously been drilled (91735).	Gf, Py, Po.	More work warranted.	
	Grid 'B'				EM-17 1600 Hz. Coil sep. 300' and 400'. 3 str. condrs.	MF-1 No anomalies.				More work warranted.	
	Grid 'C'			McPhar SS-15 1000 and 5000 Hz. 1 str. and 3 med. condrs.		MF-1 1 long anomaly of up to 3000γ assoc. with 2 condrs.				More work warranted.	
90243	East of Farewell Lake	Canadian Nickel		No report submitted.				One hole drilled.	Argillite.	No work warranted.	
92424	Hayward Creek Grid 'G'	Manitoba Minerals	1975		EM-17 1600 Hz. Coil sep. 300'. 1 med. condr.					More work warranted.	

TABLE 2 — ISKWASUM LAKE AREA 63K/10 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90250	Reed Lake Claim Block A	Hudson Bay	1957		No specs. Many str. condrs.			All the condrs. have been drilled.	Inter-sections of near solid Py, Po, Gf, tr. Cp.	No work warranted.	Felsic and mafic volcanic rocks encountered in diamond drilling in the northern part of Reed Lake contain sulphide formations with up to 40 feet of near solid sulphide (Po & Py + Gf). The gabbroic bodies in this area may be thin sills and the geophysical responses in volcanic rocks underlying the gabbro. The tonalite rocks (unit 7) on Krug Lake are the southwards extension of a belt of felsic volcanic rocks from the vicinity of the Dickstone deposit to the north.
90252	Reed Lake	Hudson Bay	1956		Loop Frame. Many str. and med. condrs.			All the condrs. have been drilled.	Inter-sections of mass. Py, Po.	No work warranted.	
90266	Krug Lake	Hudson Bay	1958		Loop Frame. 3600 Hz. 1 med. condr.					Lower freq. E.M. warranted.	
90268	Krug Lake	Hudson Bay	1969		No specs. 1 str. condr.			The condr. has been drilled.	20' of Py, Po, Gf, tr. Cp.	No work warranted.	
91667	Reed Lake	Hudson Bay	1971				Turam. 660 Hz. 1 str., 4 med. & 2 wk. condrs.	1 str. and 3 med. condrs. drilled.	Inter-sections of mass. Py, Gf.	No work warranted.	
91856	Reed Lake	Hudson Bay	1972		E.M. — 17 in north and west of claim block. 1600 Hz. 5 str. condrs. (#1-#5).		Turam, 660 Hz., Coil sep. 100'. In south and east of claim block, 5 str. (#6-#10) & 7 wk. condrs.	1 wk. condr. has been drilled.	5' of nearly solid Py on northernmost wk. condr.	Work warranted on remaining condrs.	

TABLE 2 — ISKWASUM LAKE AREA 63K/10 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
92351	Krug Lake	Granges Expl.	1975		2400 Hz. Coil sep. 300'. 880 Hz. Coil sep. 400'. Many med. condrs.			All the condrs. have been drilled.	Py, Po, Gf.	No work warranted.	
92447	Reed Lake	Hudson Bay	1973				Turam. 660 Hz. Many str., med. and wk. condrs.	Some of the condrs. have been drilled.	Southern condrs. bands of Py, Po, Gf. Northern condrs.-clay.	More work warranted.	
92565	Reed Lake	Hudson Bay	1982		Max. Min. 1777 Hz. Coil sep. 400'. 2 str. and 2 wk. condrs.			The report states that the condrs. have been drilled.	No logs		
92570	Reed Lake	Hudson Bay	1982		Max. Min. 1777 Hz. Coil sep. 600'. Many str. condrs. (same as 90252).						
92737	Reed Lake	Straus Expl.	1971				Turam. 220 and 660 Hz. Many str. med. and wk. condrs.	Many of the condrs. have been drilled (92735).			

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CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
92735 92736 92738	Reed Lake	Straus Expl.	1982		Max. Min. 1777 Hz. Coil sep. 600'. Same condrs. as 92737.			Many of the condrs. have been drilled.	Central str. condr. Gf sch, Py, Po, tr. Cp. Western condr. Gf, Py, Po, 0.48% Cu & 0.53% Zn over 5'. Eastern condr.-Gf sch, Py.	More work warranted.	
91855	Reed Lake	Hudson Bay	1973		1600 Hz., Coil sep. 400'. 1 med. condr.					More work warranted.	Thick unit of volcanogenic sediments and volcaniclastics — in part bimodal fragments. Minor chert and argillite in the northern part of the area.
92224	South of Reed Lake Claim 'A'	Manitoba Gov't.	1976		EM — 17 3 med. and 2 wk. condrs.	MF-1 3 anomalies of 600 to 1500γ.				More work warranted.	
92740 92741	Reed Lake	Bruce Dunlop Ltd.	1970 1972		ABEM 3520 Hz., Coil sep. 300'. No condrs.	MF-1 1 anomaly of 400γ.				No work warranted.	

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CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90250	Reed Lake Claim Block B	Hudson Bay	1957		3 str. and 2 med. condrs.			The condrs. have been drilled 92693 (up to 0.78% Cu/ 1.3')	Condr. #2- near solid inter-sections of Py, Po, Gf, tr. Cp, tr. Sp. The central and southern condrs. Po, Py, tr. Cp, tr. Sp.	Work warranted on the med. condrs.	
91818	Grass River Area	Hudson Bay	1972			Askania Torsion. Two strings of anomalies of 1000$_\gamma$ each.				E.M. warranted.	Volcanic rocks contain formational sulphides (Po + Py + Gf) with traces of sphalerite and chalcopyrite. Volcanic rocks have not been mapped in detail.
90263	Grass River Area	Hudson Bay	1972				Turam, 660 Hz., Coil sep. 100'. 6 str., 9 med. and 1 wk. condr.	3 str. and 1 med. condrs. have been drilled 92693 (up to 0.78% Cu/ 1.3').	Condr. #2 - 3.9' N.S.S., Po with Gf, 1/8'' streak Sp, occasional stringers, massive Py, tr. Mag. Central condrs. 4.0' section of slight well min-eralized Po, occasional Py stringers, tr. Sp, tr. Cp.	More work warranted on the remaining str. and med. condr.	

TABLE 2 — ISKWASUM LAKE AREA 63K/10 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
92716 92717	South of Loucks Lake	Freeport Canadian Expl.	1974			MF-1 and MF-2. 10 anomalies ranging between 200 500γ.	Turam, 660 Hz. 4 str., 4 med. and 5 wk. condrs.	1 condr. has been drilled.	Py, tr. Cp in one hole and tr. Cp, tr. Sp in one hole.	More work warranted.	
92733	Radar Lake	Hudson Bay	1984			G.S.M.-8. 2 anomalies of 500γ.				More work warranted.	
92224	South of Grass River Claim 'B'	Manitoba Gov't.	1976		1777 Hz. Coil sep. 400'. No condrs.					No work warranted.	
90270	Loucks Lake	Parres Syndicate	1957	SE 100, No specs. 4 long med. condrs.				The two northern condrs. have been drilled.	110' of 2.5% Py, Po, tr. Sp, Au, Ag.	More work warranted on the southern condrs.	Lake underlain by sediments and schistose volcanic rocks with minor sulphides.
90279	Barb Lake	Kerr-Addison	1964-1965	Crone JEM, 400 & 1800 Hz., Coil sep. 200'. 2 med. condrs. #1 & #2.				Condr. #1 has been drilled.	5' of 10-20% Mag. 18' of tr.-5% Py, 5' of 2 — 5% Po.	Work warranted on condr. #2.	Area underlain by mafic volcanic rocks, talcose schists, gabbro and serpentinite. Magnetite common assessory. Trace pyrite, pyrrhotite and millerite. Sulphide formation (Po-Py-Gf) encountered in drilling.
90278	Barb Lake	Hudson Bay	1971				Turam, 660 Hz., Coil sep. 100'. 15 wk. condrs.	Five of the condrs. have been drilled.	Mag, tr. Py, tr. Po.	No work warranted.	

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CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90282	Third Cranberry Lake	Cyprus Expl.	1955		Loop Frame, 3600 Hz., Coil sep. 200'. 2 str. and 2 med. condrs.	Sharpe DIM, sen. 21.4γ/ sc. div. (only in areas of condrs.). 500γ trends associated with the condrs.		The condrs. have been drilled (90503).	Gf, Py, Po. Stringers of Cp in one hole.	Lower freq. E.M. warranted.	Sulphide formation in dominantly mafic volcanic rocks that are strongly schistose and and faulted.
90274	Bear and Iskwasum Lakes. 2 Claim Blocks	Barymin Expl.	1958		Ronka. Coil sep. 200'. 2 str. and 2 med. condrs. in the northern block.			The two str. condrs. have been drilled.	25' Po, Py, Gf. Two zones Po, Py, Mag, tr. Cp	More work on the two med. condrs.	
90275	Iskwasum Lake	Hudson Bay	1964			Jalander. A few mag. trends ranging from 200 to 4000γ.		Parts of the mag. trends have been drilled.	Northern part of large anomaly - fine Hem stringers. Central-8' of Mag. Southern-2-20% Po, 3% Py, Gf, tr. Hem. Northern smaller anomaly 3' of Py, Mag. tr. Po.	No work warranted.	Sulphide formations (Py, Po and Gf) common in the Bear-Iskwasum area. Talc-carbonate schists in the belt appear to be stratiform and exhalative (?). Minor millerite and pentlandite encountered in drilling serpentine bodies.

TABLE 2 — ISKWASUM LAKE AREA 63K/10 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90276	Iskwasum Lake	Hudson Bay	1963-1965		No report. Many str. med. and wk. condrs.			Most of the condrs. have been drilled.	Py, Po, Gf in southern holes. Serp., Py in central holes.	No work warranted.	
90277	Bear Lake	Hudson Bay	1964			Jalander. One large trend of up to 3000γ. A few smaller anomalies of 500γ.		The northern end of the mag. trend has been drilled.	Northern part of large anomaly-Po, Py, Gf, Mag.	Two of the str. E.M. condrs. from 90274 are associated with the smaller mag. anomalies.	
90283	Rat Lake	Falconbridge Nickel	1965			Barringer Nuclear Precession. Two 500γ anomalies.	AFMAG. Long wire. 1 med. condr. with coincident mag.			The condr. runs along the geologic contact. E.M. warranted.	
91707	South of NTS sheet. 3 Claim Blocks	Parmlee Mining	1957	McPhar. 1000 Hz. 1 med. & 2 wk. condrs.						Turam warranted over the condrs.	
90273	Leak Lake	Parres & Assoc.	1967	SE 300, 1600 Hz. 3 med. condrs. 2 of which are only on one line. The long condr. cuts across the mag. trend.		MF-1. One north-south regional trending anomaly of 1000γ magnitude.				More work warranted.	

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CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
92024	South of NTS sheet 2 Claim Blocks	Manitoba Minerals	1972-1973		ABEM Gun, 880 Hz. Coil sep. 300'. E.M.-17, 1600 Hz., Coil sep. 400'. 3 med. condrs.			The condrs. have been drilled.	Py, Po, tr. Cp in places.	No work warranted.	
91823	Leak Lake	Freeport Canadian Expl.	1974		ABEM demigun, 880 & 2640 Hz., Coil sep. 300' & 400'. No condrs.	MF-2 and ABEM MZ-4 One 1000γ anomaly in the lake and one 200γ trend.				No work warranted.	
92224	Leak Lake Claim 'C'	Manitoba Gov't.	1976		EM-17 1600 Hz. Coil sep. 400'. 1 med. condr.	MF-1 1 anomaly of 1200γ.				More work warranted.	
92078	South of Leak Lake	Freeport Canadian Expl.	1975			MF-1, MF-2 1 anomaly, of 800γ.	Turam. 660 Hz. 1 wk. condr.			More work warranted.	
92224	South of Leak Lake Claim 'D'	Manitoba Gov't	1976			MF-1. One 1400γ trend.	Turam. 660 Hz., 1 wk. condr.			More work warranted.	

TABLE 3 — CRANBERRY PORTAGE AREA 63K/11 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90286	Second and Third Cranberry Lake	Hudson Bay	1954-1955		No specs. 7 str. and 3 wk. to med. condrs.			6 str. condrs. have been drilled.	Gf schist, Py. 90287, 90290, 90291, 91491.	No work warranted.	
90282	Third Cranberry Lake	Cyprus Expl.	1955		Loop Frame, 3600 Hz., Coil sep. 200'. No condrs.					No work warranted.	Continuation of the Elbow Lake greenstone belt. Rhyolitic rocks reported in drill logs. Sulphide formation with graphite at several localities.
90285	Third Cranberry Lake	Hudson Bay	1955-1956		Loop Frame, 3600 Hz., 1 str. and a few wk. to med. short condrs.			The str. condr. has been drilled.	Gf schist, Py.	Lower freq. E.M. warranted.	
90302	Second Cranberry Lake	Western Nuclear Mines Ltd.	1967	SE 300, 1600 Hz., Coil sep. 400'. Broadside method. 1 long str. condr. along flank of magnetic anomaly.		MF-1, 3 mag. trends of approx. 1200γ.				Drilling the condr. warranted.	
92405 92409	Third Cranberry Lake, 2 Claim Blocks	Granges Expl.	1979		Max. Min. 1777 Hz. Coil sep. 300'. A few str. and wk. condrs.			All the condrs. have been drilled (92406).	Gf Sch. with Py.	No work warranted.	

TABLE 3 — CRANBERRY PORTAGE AREA 63K/11 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
92407	Second Cranberry Lake	Granges Expl.	1979		Max. Min. 1777 Hz. Coil sep. 300'. Many str., med. and wk. condrs.			All the condrs. have been drilled (92408).	Gf sch. and argillite with Py, earthy Py in places.	No work warranted.	
92435	First Cranberry Lake	Granges Expl.	1979 1980		Max. Min. 1777 Hz. Coil sep. 300'. Many str. and med. condrs.			The condrs. have been drilled (92434).	Gf, Py, Po.	No work warranted.	
90293	Brunne Lake	Ansil Mines Ltd.	1964-1965			MF-1. A long narrow anomaly of 2000 to 3000$_\gamma$. A few 2000$_\gamma$ anomalies in the 'South'.		17 holes drilled to test the mag. anomalies. The eastern part of the long mag. anomaly caused by iron formation.	The western part of the mag. anomalies caused by a Po zone over 100 feet thick. The southern mag. anomalies caused by Mag.	E.M. work warranted.	
90476	Brunne Lake	Hudson Bay	1964-1965		Ronka MK III, 2400 Hz, Coil sep. 200'.						Sulphide formations in volcanic lavas and/or volcanogenic sediments. Structural data on area not available. Gurney gold mine located immediately north of Brunne Lake.
	Claim Block A				Many str. condrs.			Some of the condrs. have been drilled (90289).	4 layers with 120' massive Py, Po, tr. Cp.	No work warranted.	

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CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
	Claim Block B				Few short str. condrs.			All the condrs. have been drilled.	Py, Po.	No work warranted.	
92242	Brunne Lake	Hudson Bay	1971				Turam. 660 Hz. 2 str., 1 med. and 1 wk. condr.	1 str. and 1 med. condrs. drilled.	Py, Gf.	No work warranted.	
91869	Sherritt Junction	Hudson Bay	1954		No specs. 3 med. condrs.					More work warranted.	
91899	Twin Lake	Falcon-bridge Nickel	1971			Barringer Nuclear precession. 10 anomalies of approx. 1500γ.	AFMAG — long wire. 4 med. condrs. Two of which have coin-cident mag. anomalies.			E.M. warranted.	Stratigraphy in this area unknown. Probably a continuation of units in the Twin Lake area.
91172	Athapapuskow Lake	Pronto Expl.	1973		EM-17. 1600 Hz. Coil sep. 400'. 1 med. and 2 wk. condrs.	MF-1, 2000γ trends.				More work warranted.	
92016 92574	Athapapuskow Lake	Yukon Alaska Syndicate Pronto Expl.	1972 1975 1977		EM-17, 1600 Hz. 3 med. and 2 wk. condrs.	MF-1, 1500γ, and 2000γ trends.		The condrs. have been drilled 91172.	Southern wk. condr. -shear zone Med. condrs. -clay.	No work warranted.	
92357	North of Athapapuskow Lake	Granges Expl.	1980		Max. Min. 1777 Hz., Coil sep. 400'. 3 str. condrs.			The condrs. have been drilled.	Py, Po, Gf.	No work warranted.	

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CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
91577	Payuk and Nisto Lake Area 63K-11, 12	Hudson Bay	1951		Coil sep. 200'. No condrs.					No work warranted.	
90310	Kinghorn Lake	Hudson Bay	1953		No specs. No condrs.					No work warranted.	This area contains the stratigraphic equivalents of rock units in the Millwater area to the SW and the Sourdough Bay area to the west. Felsic extrusive rocks probably indicate proximity to a felsic volcanic centre. Occurrences of sulphide and gold mineralization common in the area.
90314	Lucille & Kinghorn Lake	Hudson Bay	1953-1954		No specs. 3 med. condrs.			The condrs. have been drilled.	Altered gabbro in the eastern condr. Gf in western condr.	No work warranted.	
90311	Twin Lake	Straus Expl.	1971-1972				Turam, 660 Hz., Coil sep. 100'. 2 str., 2 med. and a few wk. condrs.	The str. and med. condrs. have been drilled (92484).	Py, Po, Gf, tr. Cp.	No work warranted.	
92489	Twin Lake	Falcon-bridge Nickel	1978		Max. Min. 1777 and 444 Hz., Coil sep. 600'. Same condrs. as 90311.	G816.1 anomaly of 1500γ.		The condrs. have been drilled (92484).	Py, Po, Gf, tr. Cp.	No work warranted.	
91707	Southern part of NTS sheet. 7 Claim Blocks	Parmlee Mining	1957	McPhar., 1000 Hz. A few str. and wk. condrs.				One str. condr. drilled (Simonhouse Lake).	Py, Gf.	More work warranted on remaining condrs.	

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CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90298	Simonhouse Lake	Hudson Bay	1968		2400 Hz. Coil sep. 300'. Many str., med. and wk. condrs.			Many of the condrs. have been drilled.	Po, Py.		
92024	Simonhouse Lake, 5 Claim Blocks	Manitoba Minerals	1972-1973		ABEM Gun. 880 Hz. Coil sep. 300'. E.M.-17. 1600 Hz. Coil sep. 400'. Many str., med. and 1 wk. condrs.			4 str., and 2 med. condrs. have been drilled.	Py, Po and Gf in places.	No work warranted.	
90307 90527	South of NTS sheet	Tri-J Mineral Surveys Ltd.	1967	SE-300 1600 Hz. 3 str. condrs.		MF-1 No anomalies.				More work warranted.	
90308	South of NTS sheet	Tri-J Minerals Surveys Ltd.	1967			MF-1 No anomalies.				E.M. survey warranted.	
90639 90640 90641	Goose Lake	Tri-J Minerals Surveys Ltd. Guggenheim Expl. Co. Ltd.	1967 1969	SE-300 1600 Hz. 5 wk. condrs.	Ronka. 2400 Hz. One wk. condr. (same as western VLEM condr.).	MF-1 5000γ trends				More work warranted.	
92574 92577	Goose Lake	Pronto Expl.	1975 1977		EM-17, 1600 Hz. Same condrs. as 90639.	Same anomalies as 90639.				More work warranted.	

TABLE 4 — SCHIST LAKE AREA 63K/12 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90374	Schist Lake and Manistikwan Lake	Le Pas Mining Co.	1950			Sharpe, Schmidt type 4 anomalies of approx. 700γ.		The mag. anomalies have been drilled (90375, 90380).	Py, Po, Hem in 3 western mag. anomalies. 120' of 5-20% Py, Po, tr. Cp in eastern mag. anomaly.	E.M. warranted.	Eastern part of this area contains polymetallic sulphide occurrences and alteration zones similar to those generally assoc. with volcanogenic massive type mineralization. Eastern part of area contains minor felsic fragmental rocks. The western part of the area is composed dominantly of mafic flows and flow breccias. Some of the felsic rocks shown are intrusive, others extrusive.
90341	Manistikwan Lake 63K-12, 13	Big Island Copper Mines	1952			Sharpe, 47γ/sc. div. 14 anomalies of 1200γ.				E.M. warranted.	
90372 90373	Manistikwan Lake 63K-12, 13	Straus Expl.	1972				Turam. 660 Hz. Many str. condrs.	Most of the condrs. have been drilled.	10' intersections of earthy Py and some Gf.	More work warranted.	Small polymetallic sulphide occurrences present in the area. Sulphide formations

TABLE 4 — SCHIST LAKE AREA 63K/12 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90376	Manistikwan Lake	Cobalt Cons. Mining	1957				Sharpe S.P. unit. 4 anomalies of approx. 200 mv.			E.M. warranted.	with Cu drilled. Rocks probably a continuation of rock unit at Embury Lake.
90378	Manistikwan Lake 63K-12, 13	Prospector Airways	1961	Crone JEM, 400 & 1800 Hz., Coil sep. 200'. No condrs.	Ronka. No condrs.	Sharpe A-3. A few anomalies.				No work warranted.	
90377	Between Schist Lake and the Manitoba-Saskatchewan Border	Parres & Associates	1949			Sharpe. Askania Type. Anomalies of 300γ.		Many holes have been drilled in the southern part of one anomaly. (90365, 90371).	Gf, Py, Diorite.	E.M. warranted.	
90362	Along west Arm of Schist Lake and Manitoba-Saskatchewan Border	Parres & Associates	1953			Sharpe. Askania Type. 1 anomaly at south-end of claim block — 500γ.				E.M. warranted.	
90368	On Manitoba-Saskatchewan Border	Noranda	1962	Crone JEM, 1800 Hz., Coil sep. 200'. 1 wide (over 1400') med. condr.						No work warranted.	This area contains the southward extension of the Mandy-Schist Lake stratigraphic unit and the eastwards extension of the rock units hosting the West Arm Mine.

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CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90379	On Manitoba-Saskatchewan Border — approx. 6 miles south of Flin Flon.	International Minerals	1965			MF-1. A few mag. highs - approx. 1500γ range.				E.M. warranted.	The volcanic rocks on the south shore of West Arm stratigraphically overlie the West Arm Mine. Volcanic rocks in the area between the SW and West Arms of Schist Lake may in part be stratigraphic equivalents of the Burley Lake Syncline. The West Arm and Northwest Arm massive sulphide deposits probably occur at similar stratigraphic positions. Several sulphide formations (Py & Gf) are present at south end of Schist Lake.
90367	South end of Schist Lake	Parres & Associates	1953			Sharpe. Askania Type, Sen. 26γ/sc. div. 1 anomaly of 200γ.		The mag. anomaly has been drilled.	Diorite.	No work warranted.	
90384	South end of Schist Lake	Cyprus Expl.	1955		Loop Frame, 3600 Hz. 4 str. & 1 med. condr.			All the conductors have been drilled. (90382)	Gf, Py, tr. Cp in northern condrs. Logs not available for southern condrs.	No work warranted.	
90534	South end of Schist Lake	Rio Tinto	1962	1000 Hz. Parallel line and detailed 3 str. condrs. (#1, 2, 3) and 1 med. condr. (#4).		Sharpe A-2. No anomalies.		Condr. #'s 1, 3, and 4 have been drilled.	Condr. #1 - Gf, Py. Condr. #3 -tr. Py, Po, Cp.	Work warranted on condr. #2.	
90387	South end of Schist Lake	Parres & Associates	1970	SE-300, 1600 Hz. 1 str. condr.		MF-1, Sen. 20γ/sc. div. 1 wk. anomaly.		The condr. has been drilled. (90381, 90383)	Gf, Py.	No work warranted.	

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CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
91584	Schist Creek	Hudson Bay	1962		2400 Hz., Coil sep. 200'. 1 wk. condr.			The condr. has been drilled.	Gf, Po.	No work warranted.	Area underlain predominantly by Missi Group arkose and conglomerate. Conductor probably occurs in the underlying Amisk volcanics.
90366	Inlet and Northeast Arm of Schist Lake	Hudson Bay	1949	No specs. Many str. condrs. running along the shorelines. Few med. condrs.				Some of the condrs. have been drilled. (90334)	Western condrs.- Gf schist, Py. Eastern condrs.-Py, Po, tr. Cp.	More work warranted on southern condrs.	Underlain predominantly by volcanogenic sediments and volcaniclastics. Area represents southward extension of the White Lake — Cuprus miner- alized unit and sulphide-bearing units in Manistikwan Lake area. Sulphide formations present could have poly-metallic deposits in close proximity or within them.
90359	Between Schist Lake and West Arm of Athapapuskow Lake	Cyprus Expl.	1955		Loop Frame 3600 Hz. 3 str. condrs. (#'s 1, 2 & 3).			The condrs. have been drilled.	Condr. #1-Gf schist, Py. Condr. #2- Massive Py, Po, tr. Cp, Condr. #3 Gf, Py.	Bore hole geophysics warranted on condr. #2.	Underlain predominantly by Missi

TABLE 4 — SCHIST LAKE AREA 63K/12 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90361	Near Athapapuskow Beach	Hudson Bay	1962		2400 Hz., Coil sep. 200'. 4 wk. condrs.					Lower freq. E.M. warranted.	Group fluviatile sediments. Anomalies in Amisk volcanics occupy a stratigraphic position close to that of the Centennial and Pine Bay deposits.
93049	Athapapuskow Lake	Western Nuclear	1967	Sharpe SE-300. 1600 & 400 Hz. 1 med. condr.		MF-1. No anomalies.		The condr. has been drilled.	Gf.	No work warranted.	
91468	Athapapuskow Lake Claim 'A'	Manitoba Minerals	1972		ABEM Gun 3520 and 880 Hz. Coil sep. 300' Same condr. as 90359.			The condr. has been drilled.	Py, Gf.	No work warranted.	
90319	South of Bakers Narrows	Stanmac	1948	No specs. Many str. condrs.		Hotchkiss super dip. Scanty coverage.				The condrs. seem wide. May be caused by lake bottom. More work warranted.	
90323	Athapapuskow Lake	Seachor Ltd.	1970			MF-1. No anomalies.				More work warranted.	Area stratigraphically overlying a felsic volcanic centre at Bakers Narrows and the Centennial Mine.
91600	Near Bakers Narrows	Parres & Associates	1972				Turam. 200 & 600 Hz. Coil sep. 100' 2 med condrs.			More work warranted.	

TABLE 4 — SCHIST LAKE AREA 63K/12 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90322	Athapapuskow Lake	Sherritt Gordon	1949	No specs. 6 str. and a few wk. to med. condrs.				2 condrs. have been drilled.	20-40% Py, Po, Mag. and Gf. Iron formation.	More work warranted on southern condrs.	
90329	Athapapuskow Lake	Hudson Bay	1956	1000 Hz. over part of area. 1 str. and 2 wk. to med. condrs.	No specs. 4 str. condrs. 2 of which coincide with VLEM condrs.			3 condrs. have been drilled (90339).	Sericite schist Py, Hem.	More work warranted.	Contains felsic volcanic rocks and a number of minor known sulphide occurrences. Complex folds in this area probably repeat the stratigraphy of the Centennial-Pine Bay area in a major anticlinal structure.
90336 and 90337	Approx. 3 miles south-east of Bakers Narrows	Straus Expl.	1969		2400 Hz. 1 str. condr. only on one line.					No work warranted.	
90331	Approx. 3 miles south-east of Bakers Narrows	Straus Expl.	1970		Ronka, 2400 Hz. Coil sep. 300'. No condrs.	MF-1. 2 anomalies of 200γ.				No work warranted.	
90332	Approx. 3 miles south-east of Bakers Narrows	Straus Expl.	1970			MF-1. No anomalies.				No work warranted.	

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91468	Athapapuskow Lake Claim 'B'	Manitoba Minerals			ABEM Gun 3520 and 880 Hz. Coil sep. 300'. Same condrs. as 90322.			7 holes drilled.	Bands of mass. Gf, Py.	No work warranted.	
91849	South of Bakers Narrows	Straus Expl.	1970				Turam. 660 Hz. 1 str. and a few wk. condrs.	The str. condr. has been drilled.	Shear zone with Py.	No work warranted.	
92743	Athapapuskow Lake	Hudson Bay	1978		Max. Min. 444 Hz. Coil sep. 600'. Same condrs. as 90322.			The condrs. have been drilled.	Western condr. - earthy Py, Gf, tr. Cp. Eastern and central condr. — Py.	No work warranted.	
92767	Athapapuskow Lake	Granges Expl.	1984		Max. Min. 888 and 1777 Hz. Coil sep. 150 m. 1 med. condr.			The condr. has been drilled (92769).	Gf, Py.	No work warranted.	
90325	North Arm - Athapapuskow Lake	Trans-northern Mines Ltd.	1955	1000 Hz. 4 str. and 1 med. condr.		Sharpe D1-M. No anomalies.		The condrs. have been drilled. Abandoned hole would have intersected the Centennial deposit if completed.	1 orebody, 4 others Gf and fault zone.		Underlain mainly by massive mafic rocks of possibly intrusive origin.

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CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
92296	North Arm - Athapapuskow Lake	Guggenheim Expl.	1970				Turam. 660 Hz. No condrs.			No work warranted.	
90343	North Arm - Athapapuskow Lake 2 Claim Blocks	Kerr-Addison	1964	Crone JEM. 1800 Hz. 3 med. condrs.				One condr. drilled.	Earthy Py.	More work warranted.	Drilling carried out on the Hotstone Property immediately north of the area indicates a large area of alteration which stratigraphically underlies the indicated anomalies.
91842	North Arm Athapapuskow Lake	Hudson Bay	1974			Askania torsion mag. 2 anomalies of 1200γ.				No work warranted.	
92751	Sourdough Bay	Hudson Bay	1982		Max. Min. 1777 Hz. Coil sep. 600'. 2 str., 1 med. and 1 wk. condr.			The med. condr. has been drilled.	Earthy Py.	Work warranted on the other condrs.	
92146	East of Bakers Narrows	Pinebay Mines	1976		820 Hz. Coil sep. 200'. 2 wk. condrs.	MF-1. No anomalies.		Drilled one condr.	Py.	No work warranted.	
92147	North of Bakers Narrows	Pinebay Mines	1976		820 Hz. Coil sep. 300'. 1 str. condr.			The condr. has been drilled (91533).	Py, Po, tr. Cp. (30 to 60' intersections).	No work warranted.	

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CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
92322	Bakers Narrows	Pinebay Mines	1972		EM-17. 1600 Hz. 4 wk. condr.		Turam. 660 and 220 Hz. 4 wk. condrs.	Drilled one condr. (92323).	Shear with Py.		
92321	Bakers Narrows	Pinebay Mines	1978		EM-17. 820 Hz. Coil sep. 300'. No condrs.				No work warranted.		
90326	Cleaver Lake	Hudson Bay	1950		No specs., Coil sep. 200'. No condrs.				No work warranted.		
90316	Cleaver Lake	Hudson Bay	1951		No specs., Coil sep. 200'. 1 str. and 2 med. condrs.			4 holes drilled but not on condrs. (90209, 90315).	Py, Po, tr. Cp.	Work warranted on str. and med. condrs.	Undelain by mafic and felsic volcanic rocks with known sulphide formations and polymetallic occurrences in the immediate vicinity. Large areas of felsic volcanics not shown on map. Sulphide occurrences between Nisto and Neso Lakes exhibit some characteristics of porphyry Cu systems. Zone of alteration in felsic volcanic rocks present in the Southern part of Neso Lake.
91577	Payuk, Neso and Nisto Lake 63K-12, 11	Hudson Bay	1951		No specs., Coil sep. 200'. Many str. and 2 wk. condrs.			Most of the condrs. have been drilled 90321, 90342, 90346, 91534, 91535, 91578.	The wk. condrs. - tr. Py. The central str. condrs. - Po, Py, tr. Cp. The southern str. condrs. - Gf schist.	No work warranted.	

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CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
91585	Payuk Lake	Stanmac Ltd.	1949	No specs. 1 str. and 2 med. condrs.				The condrs. have been drilled (90352, 91581).	Gf, Py.	No work warranted.	
90353	Athapapuskow Lake	Hudson Bay	1952		No specs., No out-of-phase recorded. Numerous str. and med. condrs.			Most of the condrs. have been drilled 90351, 90354	Gf schist, Hem, Lm, Py. Holes on north-eastern-most condr. intersected Py, Po, Cp and Sp.	More work warranted.	Low grade Cu deposit in the NE corner of area J. Sulphide formations with minor Cp commonly in association with sericitic schists and sediments encountered in drilling.
91951 90364	Athapapuskow Lake	Noranda Expl.	1966		Ronka MK III. 2400 Hz. Coil sep. 300'. Many str. and med. condrs.			5 condrs. have been drilled.	Po, Py.	More work warranted.	
92085	Athapapuskow Lake	Hudson Bay	1965		No report. 3 str. condrs.			The condrs. have been drilled.	Wide inter-sections of mass. Po, Py. 11' of 0.78% Cu in one hole.	More work warranted.	
92187	Athapapuskow Lake	Mattagami Lake Mines	1972			MF-1. One trend of 1500γ.	Turam. 400 Hz. 3 str. and 2 med. condrs.	The condrs. have been drilled.	Gf schist. Up to 18' inter-sections of earthy Py.		

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CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
91707	Southwest part of NTS sheet	Parmlee Mining	1957	McPhar, 1000 Hz. No condrs.						No work warranted.	Area underlain in part by felsic and mafic volcanic rocks. Several occurrences of pyrite in felsic volcanics.
91385	West Arm - Athapapuskow Lake	Falcon-bridge Nickel	1971			Barringer Nuclear Precession. One 2500γ trend.	AFMAG-Long wire 9 str. condrs.	The northern condrs. have been drilled.	Po, Py.	E.M. warranted.	
90357	Athapapuskow Lake	Cyprus Expl.	1955		Loop Frame, 3600 Hz., Coil sep. 200'. No condrs.			Many holes have been drilled on the island.	Very shallow Py, Cp.	Lower freq. E.M. warranted.	There is a Cu showing on the island.
91707	Southeast part of NTS sheet	Parmlee Mining	1957	McPhar, 1000 Hz. Many str., med. and wk. condrs.				4 med. and 1 wk. condrs. have been drilled.	Ch and Gf schists with tr. Py, Cp in places.	Work warranted on remaining str. and med. condrs.	
91744	Southeast part of NTS sheet	Jack B. Silman	1966		Ronka. Coil sep. 300' 1 med. short condr. in the largest claim block (same as 91707).	Sharpe MF-1 & McPhar Fluxgate. A few trends of 1500γ		The med. condr. has been drilled.	Ch and Gf schists.	No work warranted.	
91172	Athapapuskow Lake	Pronto Expl.	1973		EM-17. 1600 Hz. Coil sep. 400'	MF-1					
	Eastern Grid				No condrs.	No anomalies				No work warranted.	
	Western Grid				2 med. and 2 wk. condrs.	4000γ trends		One med. condr. drilled.	Nothing conductive	More work warranted.	

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CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
92016	Athapapuskow Lake	Yukon Alaska Syndicate	1972		EM-17. 1600 Hz. Coil sep. 300' and 400'. A few med. and wk. condrs.	MF-1 A few anomalies of up to 3000$_\gamma$. One trend of 8000$_\gamma$.		Most of the condrs. have been drilled.	Gf. Py.	More work warranted on remaining condrs.	
92574 92577	SE corner of NTS sheet and same claim block as 92016	Pronto Expl.	1975 1977		EM-17. 1 str. condr. in SE corner claim block.	MF-1. 2000$_\gamma$ anomalies.		The condr. has been drilled.	Gf. seds. and Py.	No work warranted.	
92765	Athapapuskow Lake	Hudson Bay	1980		Max. Min. 888 Hz. Coil sep. 600'. 1 str. and 1 med. condr.			The med. condr. has been drilled.	Po. Py. tr. Cp.	More work warranted on str. condr.	

TABLE 5 — FLIN FLON AREA 63K/13 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90466 and 90467	Embury Lake	Hudson Bay	1949	No specs. Many str. condrs.				Some of the condrs. have been drilled 90468.	Gf in holes intersecting condrs. of west and north shore-lines. Po, Py, in holes intersecting condrs. of east shore-line.	Central condrs. - Trout Lake orebody.	Embury Lake poly-metallic massive sulphide deposit located at approx-imately the same stratigraphic level as the Flin Flon Mine.
90470	Embury Lake - Precipice Lake	Hudson Bay	1951		No specs. Many str. condrs.			The condrs. have been drilled.	The northern holes inter-sected Py, Po, tr. Cp. The southern holes Gf, Py, Po.	No work warranted.	Geological detail unknown. Folding in the area probably repeats the Embury Lake and White Lake-Cuprus horizons.
92544	Kisseynew Lake	Hudson Bay	1981		Max. Min. 1777 Hz. Coil sep. 400'. Many str. condrs.			2 holes drilled (92377, 92549).	Gf, Py.	More work warranted on remaining condrs.	
90341	Manistikwan Lake	Big Island Copper	1952			Sharpe 47γ/ sc. div. 4 anomalies.				No work warranted.	
90372 90373	Manistikwan Lake	Straus Expl.	1972				Turam. 660 Hz. Many str. condrs.	Most of the condrs. have been drilled.	10' inter-sections of earthy Py and some Gf.	More work warranted.	

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90378	Manistikwan Lake	Prospector Airways	1961	Crone JEM, 400 & 1800 Hz., Coil sep. 200'. 1 str. condr.	Ronka. 3 med. condrs.	Sharpe A-3. 600γ assoc. with the str. condr. and 1200γ assoc. with the med. condr.		The east med. condr. has been drilled.	Gf, Py.	Work warranted on the str. condr.	Southward extension of the Embury Lake stratigraphy. West side of Manistikwan faces westward; east side probably faces eastward. Sulphide formations and Mg-alterations exposed in NE corner of lake.
90463	Manistikwan Lake	Straus Expl.	1971				Turam. 660 Hz., Coil sep. 100'. 1 str. and 1 med. condr.	Both the condrs. have been drilled 90462, 90464.	Str. condr. -Gf, Py, Po. Med. condr. - Earthy Py and Cp.	No work warranted on str. condr. Bore-hole geo-physics on med. condr.	One intersection in drill hole on med. condr. assayed 0.95% Cu.
92010	Between Embury and Manistikwan Lakes	Prospectors Airways	1960 1961	Crone JEM 1800 Hz. 1 str. and 1 med. condr.				The med. condr. has been drilled (90471).	Py, Po.	Work warranted on the str. condr.	
92634	Manistikwan Lake	Hudson Bay	1981		Max. Min. 1777 Hz. Coil sep. 400'. 1 med. and 1 wk. condr.			Both condrs. have been drilled.	Wk. condr.- Limonite, hematite, Py. Med. condr. — Py, Po.		
92707	Manistikwan Lake	Straus Expl.	1971				Turam. 220 Hz. 1 str. condr.	The condr. has been drilled.	Py, Po.	This is the same med. condr. of 92010 and 92634.	

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CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
92367	Manistikwan Lake area	Granges Expl.	1978		ABEM Gun 1777 Hz., Coil sep. 300'. No condrs.					No work warranted.	
92391	Manistikwan Lake area	Granges Expl.	1978		Max. Min. 1777 Hz. Coil sep. 300'. No condrs.					No work warranted.	
90408	North of Bear Lake	Embury Lake Mining	1949			Askania type, 1 anomaly of approx. 700γ.		The mag. anomaly has been drilled.	Py, Po.	No work warranted.	
90437	Between Mikanagan and Embury Lakes	Hudson Bay	1952		No specs. Many str. condrs.			Condr. #'s 1 to 4 & 6 have not been drilled. The remaining condrs. have been drilled 90434, 90438.	Condr. #'s 5, 7 to 17-Gf, Py, Po, Cp. Condr. #18-heavy Po, Py and Cp. Condr. #'s 19, 20-Py. Condr. #'s 22 to 27-heavy Po, Py. Condr. #28-tr. Po, Py, Cp.	E.M. warranted on condr. #'s 1, 2, 3, 4 and 6. Borehole geophysics warranted on condr. #18.	Area contains northward extension of Cuprus-White Lake stratigraphy. Felsic rocks encountered in drilling. Several major sulphide formations present.
90428	North of Bear Lake	Patino Management Services	1959	VLEM condr. coinciding with the HLEM condr.	Ronka. Coil sep. 200'. 1 med. condr. with mag. assoc.	Watts. 1 anomaly of approx. 200γ.	AFMAG. 1 med. condr.	The condr. has been drilled.	Py, Po.	No work warranted.	Felsic volcanics and alterations present on west shore of north finger of Manistikwan Lake. Dioritic sill may

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90454	West of Mikanagan Lake	Guggenheim Expl.	1969		Ronka, 876 Hz., Coil sep. 300'. 1 str. condr. #28 previously outlined by 90437.			The condr. has been previously drilled 90434.	tr. Po. Py. Cp.	No work warranted.	mask responses from underlying Amisk volcanics in the area west of Bartley Lake.
91611	Bear Lake	Granges Expl.	1974		2400 Hz. Coil sep. 300'. 3 str. and 1 wk. condr.			The 3 str. condrs. have previously been drilled.	The wk. condr. Py.	No work warranted.	
	Whitefish Lake	Granges Expl.	1974		1 wk. condr.					More work warranted.	
90450	Tartan Lake	Hudson Bay	1961		No specs. 2 str. condrs.					More work warranted.	
92169	Tartan Lake	Granges Expl.	1975		No report 2400 and 1600 Hz. Coil sep. 300'. 1 str. and 1 med. condr.			The str. condr. has been drilled.	Bands of mass. Po.	More work warranted.	
92672	Bluenose Lake	Hudson Bay	1978		Max. Min. 888 Hz., Coil sep. 600'. 2 str. and 3 med. condrs.			1 med. condr. has been drilled. (92673)	Po, Py, tr. Cp, tr. Sp.	More work warranted.	

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90419	Alberts Lake	Hudson Bay	1950-1951		Loop Frame, 3600 Hz., Coil sep. 200'. No condrs.					No work warranted.	
90409	Bryan Lake	Hudson Bay	1951		No specs. 1 med. condr.			The condr. has been drilled. (90423)	tr. Py, tr. Cp.	No work warranted.	Part of the Thompson Lake felsic centre; facing directions unknown in this area.
92079A	Bryan Lake	Hudson Bay	1973-1974				Turam SE-71 400 Hz., 2 str., 7 med. and 3 wk. condrs.	Some of the condrs. have been drilled.	Tr. Py, tr. Cp.	More work warranted.	
90456	Between Mikanagan Lake and Embury Lake	Hudson Bay	1952		No specs. Many str. condrs.			Some of the condrs. have been drilled.	Gf schist with Py, Po.	No work warranted.	
90407	West of Sourdough Bay	Hudson Bay	1952		No specs. 5 str. condrs. (#'s 9, 10, 11, 12, 13). 2 med. condrs. (#'s 7, 8).			Condrs. #'s 7, 10, 11, 12, 13 have been drilled. (90445)	Condrs. #'s 10, 11, 12, 13-Gf schist with some solid Py, Po. Condr. #7 Earthy Py, Gf.	E.M. warranted on condr. #8.	
90411	West of Mikanagan Lake	Hudson Bay	1952		Loop Frame, 3600 Hz., Coil sep. 200'. No condrs.					No work warranted.	

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90330	Sourdough Bay	Hudson Bay	1953		Loop Frame, 3600 Hz., Coil sep. 200'. No out-of-phase recorded. 1 str., 1 med & 1 wk. condr.			The str. and med. condrs. have been drilled.	Heavy Gf, Py in str. condr. Poor logs for hole in med. condrs.	Borehole geophysics warranted on the str. condr.	
91379	Sourdough Bay	Hudson Bay	1953		No specs. 1 str., 1 med. and 1 wk. condr.			The str., wk. and med. condrs. have have been drilled. (90451, 90455)	Heavy Gf, Py in str. condr. Poor logs for hole in med. condr. Py, Cp in wk. condr.	Borehole geophysics warranted on the str. condr.	A major felsic centre is situated in the Thompson Lake area. Polymetallic mineralization is known to occur on at least 7 different stratigraphic levels. Sulphide formations immediately east of Pineroot River and Swordfish Lake indicate the presence of other higher level, mineralized units.
91384	Swordfish Lake	Hudson Bay	1953		No specs. - 8 str. condrs. (#'s 18 to 25).			All the condrs. except #25 have been drilled. (90414)	Gf, Schist, tr. Py, tr. Po.	Work warranted on condr. #25.	
90441	West of Sourdough Bay	Hudson Bay	1953		No specs. 5 str. condrs. (#'s 10, 11, 12 13 and 14).			Four condrs. have been drilled (#'s 10, 11, 12 and 13).	Gf schist with some solid Py, Po.	Work warranted on condr. #14.	
90448	Mikanagan Lake	Hudson Bay	1953		No specs. No condrs.					No work warranted.	

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90402	Mikanagan Lake	Hudson Bay	1953		No specs. 1 str. condr. (#13) and 2 med. condrs. (#7, 8).			The str. and 1 med. condr. (#7) have been drilled. (90432, 90440)	Condr. #13-Gf. Condr. #7-Earthy Py and Gf.	E.M. warranted on Condr. #8.	
91380	Mikanagan Lake	Cyprus Expl.	1954		Loop Frame, 3600 Hz. 3 str. condrs. (#'s 1, 2, 3). 1 med. (#15) and 2 wk. (#'s 16, 17).			The 3 str. and 1 med. condrs. have been drilled. (90442)	Str. condrs. -Gf, Py, Po, tr. Cp. Med. condr. - tr. Po, Py, Cp.	No work warranted.	
90420	Mikanagan Lake	Patino Mining	1959		Ronka, Coil sep. 200'. No condrs.	Watts, 37γ/ sc. div. No anomalies.	AFMAG, Two freq. 3 long med. condrs. running close to the shoreline.	The two western condrs. have been drilled.	Py.	E.M. warranted on the eastern AFMAG condrs.	
90403	Alberts Lake	Northern Eagle Mines	1967-1968	McPhar REM, Coil sep. 400'. 3 wk. condrs	Ronka, 876 Hz., Coil sep. 300'. No condrs.					No work warranted.	
90405	North of Sourdough Bay	Guggenheim Expl.		S.E. 300, 1600 Hz . Coil sep. 400'. No condrs.						No work warranted.	

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91481	Thompson Lake	Guggenheim Expl.	1967	Sharpe SE 300, 1600 Hz., Broad-side. 1 med. condr.	ABEM, 3520 Hz., Coil sep. 300'. A few wk. to med. long condrs. in the lakes.				The holes just south of Mud Lake -scattered inter-sections of 50% sulphides. Some assaying 2% Cu, 5-7% Zn. Holes in Flintoba Lake-Fault zone. (90425, 90427)	More work warranted.	
90426	Alberts Lake	Guggenheim Expl.	1969		Ronka, 876 Hz., Coil sep. 300'. 1 str. condr. with mag. assoc.	MF-1. A few NE-trending highs of approx. 1000γ.				More work warranted on the condr.	A major felsic centre is situated in the Thompson Lake area. Poly-metallic mineral-ization is known to occur on at least 7 different strati-graphic levels. Sulphide formations immediately east of Pineroot River and Swordfish Lake indicate the presence of other higher level, mineralized units.
90412	Alberts and Mikanagan Lakes Area	Guggenheim Expl.	1969		Ronka, 2400 Hz., Coil sep. 300'. 2 med. and a few wk. condrs.			One med. condr. #15 has been drilled.	tr. Po, Py, Cp.	Work warranted on the other med. condr.	
90415	Alberts Lake	Guggenheim Expl.	1969		Ronka, 876 Hz., Coil sep. 300'. No condrs.	MF-1. One 200γ anomaly over 400'.				No work warranted.	
90431	Alberts Lake	Guggenheim Expl.	1969		Ronka, 876 Hz., Coil sep. 300'. No condrs.					No work warranted.	

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90422	North of Thompson Lake	Parres & Assoc.	1972			MF-1. A small trend of approx. 150γ.		Many holes drilled. 90435	Py, tr. Cp.		
90430	West of Sourdough Bay	Guggenheim Expl.	1972		Ronka, 876 Hz., Coil sep. 300'. No condrs.					No work warranted.	
91944	Lake Aimee	Guggenheim Expl.	1968		Ronka 2400 Hz., Coil sep. 300'. Many str. condrs.			Many of the condrs. have previously been drilled.		Work warranted on condrs. #27 to 32.	
91965	Lake Aimee	Cerro Mining	1971	SE 600,	1600 Hz., Coil sep. 300'. 2 med. condrs. each on 1 line.			The condrs. have been drilled. (90413)	Minor Py, Po.	No work warranted.	
92079B	Mikanagan Lake	Hudson Bay	1973-1974				Turam SE-71 400 Hz., 2 str., 3 med. and many wk. condrs.	The str. condrs. have been drilled.	Po, Py, Gl and tr. Cp.	More work warranted.	
92439	Alberts Lake	Granges Expl.	1977		No report. 2400 Hz., Coil sep. 300'. 1 wk. condr.			The condr. has been drilled. (92444)	Minor Py.	No work warranted.	

TABLE 5 — FLIN FLON AREA 63K/13 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
92449	Alberts Lake	W.T. Hanna	1981		ABEM, 2400 Hz., Coil sep. 300'. 1 wk. condr.	1 anomaly of 1500γ.				More work warranted.	
92635	Mikanagan and Alberts Lakes	Hudson Bay	1976				Turam, 400 and 660 Hz., Many str. med. and wk. condrs.	Condrs. #10, 13, 33 and 34 have been drilled. (91489)	Condr. #10- Gf, Sch., Py, Po. Condr. #13- Gf, Sch., earthy Py. Condr. #33 Py, Po. Condr. #34 Py, Po, tr. Cp.	Work warranted on remaining condrs.	
90397	Kisseynew Lake Area — 63K-13, 63K-14	Hudson Bay	1960		Loop Frame, 3600 Hz. Many str. and a few med. condrs.					Lower freq. E.M. warranted.	Several sulphide formations present in the Wabiskok Lake area.
90487	Wabishkok Lake 63K-13, 14	Hudson Bay	1966-1967		2400 Hz., Coil sep. 200'. 3 str. condrs.			All the condrs. have been drilled. (90401)	1' inter-sections of mass. Po, Py, tr. Cp.	No work warranted.	Geology of the area not well documented.
90401	Wabishkok Lake	Hudson Bay	1968		2400 Hz., Coil sep. 300'. 4 str. condrs.			The condrs. have been drilled.	Mass. Gf, Po, Py, inter-sections.	No work warranted.	

TABLE 5 — FLIN FLON AREA 63K/13 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
92673	Wabishkok Lake	Hudson Bay	1978		Max. Min. 888 Hz., Coil sep. 600', 5 str. and 2 med. condrs.			1 str. and 1 med. condr. drilled.	Po, Py, tr. Sp, tr. Cp.	More work warranted.	
90392	Kisseynew Lake	Meridian Mining	1968			MF-1. No anomalies.		Some holes drilled. (90393)	0.23% Ni, tr. Cp.	E.M. survey warranted.	One trench contains 0.2% Cu and 0.7% Ni.

TABLE 6 — NAOSAP LAKE AREA 63K/14 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90480	Kisseynew Lake Area	Hudson Bay	1952-1953		No specs. No out-of-phase recorded. Many str. condrs.			The condrs. have been drilled.	Massive Po in the long str. condr. in the west of claim block. Py, Po, Cp, Sp in central condrs. Assay of up to 2.8% Cu and 16.6% Zn over 0.6' Po, Py, tr. Cp in the eastern condrs. (90479).	Borehole geophysics warranted.	Sulphide formations with minor poly-metallic sections, indication of alteration in some drill logs. Geological environment in part similar to the Sherridon area.
92696	Weldon Bay	Hudson Bay	1982		Max. Min. 1777 and 3555 Hz. Coil sep. 400'. Same condrs. as 90480.			1 hole drilled.	Py, Po, Gf.		
90485	Blueberry Lake	Cove Uranium Mines Ltd.	1955			Sharpe. 90γ/sc. div. 1 narrow 400γ anomaly.		2 holes drilled to test the mag. anomaly.	0.5' of massive Po 3.5' of 2.3% Py, tr. Cp.	E.M. warranted.	
90398	Kisseynew Lake Area — 2 Claim Blocks	Hudson Bay	1959		Loop Frame, 3600 Hz., A few str. condrs. in northern block.					Lower freq. E.M. warranted.	

TABLE 6 — NAOSAP LAKE AREA 63K/14 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90397	Kisseynew Lake Area — 63K-13 and 63K-14	Hudson Bay	1960		Loop Frame, 3600 Hz., A few str. and med. condrs.			The southern condrs. have been drilled. (90477)	Massive Po, tr. Cp and Sp in southern condr. No logs for south-western condr.	Lower freq. E.M. warranted in northern part of claim block.	
90478	Sewap Lake	Hudson Bay	1964		No report. Many str. condrs.			All the condrs. have been drilled.	Up to 60' of mass. Po, Py, tr. Cp.	No work warranted.	
90487	Wabishkok Lake 63K-13, 63K-14	Hudson Bay	1966-1967		2400 Hz., Coil sep. 200'. Many str. and med. condrs.			All the condrs. have been drilled. (90401)	Inter-sections of mass. Po, Py, tr. Cp.	No work warranted.	
90314	Southern part of sheet.	Hudson Bay	1953-1954		No specs. No condrs.					No work warranted.	
92655	Nesosap Lake	Hudson Bay	1980		Max. Min. 1777 Hz., Coil sep. 400'. 1 str. condr. on one line and 1 wk. condr.			Both condrs. have been drilled.	Py, tr. Cp in wk. condr.		
92050	Vamp Lake	Pickering Metal Mines Ltd.	1964	Crone JEM 480 and 1800 Hz. No condrs.						No work warranted.	

TABLE 6 — NAOSAP LAKE AREA 63K/14 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90474	Fay Lake	Kerr-Addison	1963-1964	Crone JEM, 1800 Hz. No condrs.						No work warranted.	
90472	Fay Lake	Kerr-Addison	1964	Crone JEM, 1800 Hz., Coil sep. 200'. 1 str. and 1 wk. condr.				Both the condrs. have been drilled. (90473)	Massive sulphides, Po, Py, minor Cp in strong condr. Py, Po, tr. Cp in wk. condr.	No work warranted.	Probably a continuation of the greenstones to the southwest that contain the Vamp Lake deposit.
91563	Fay Lake	Hudson Bay	1973		EM-17, 1600 Hz., Coil sep. 300'. 3 str. condrs.			All except 1 condr. have been drilled.	Mass. Po, Py, minor Cp.	More work warranted on northwest condr.	
92463	Fay Lake	Granges Expl.	1980-1981		2400 Hz., Coil sep. 300'. Same condrs. as 91563.			The condrs. have been drilled.	Central condrs. Po, Py and 3' of 1.0% Cu.	More work warranted.	

TABLE 6 — NAOSAP LAKE AREA 63K/14 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90476	Elbow Lake, Peterson Lake and Brunne Lake 63K-14, 63K-11 and 63K-15 — Four Claim Blocks.	Hudson Bay	1964-1965		Ronka MK-111, 2400 Hz., Coil sep. 200'. Many str. and a few wk. condrs.			All the str. condrs. have been drilled.	Southern block-18' massive Py. Sections of 200' well mineralized to massive Py and Po, tr. Cp in some cores. D.D.H. #6 entire core length mainly graphic tuff well mineralized with Po and Py. Eastern block-Gf, Po, Mag.	No work warranted.	
92242	Copper Lake	Hudson Bay	1971				Turam, 660 Hz., 1 str. condr.	The condr. has been drilled.	Py, Gf, tr. Cp.	No work warranted.	

TABLE 7 — ELBOW LAKE AREA 63K/15 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90282	Grass River	Cyprus Expl.	1955		Loop Frame, 3600 Hz., Coil sep. 200'. A few str. condrs.	Sharpe DIM, sen. 21.4γ/ sc. div. (only in areas of condrs.) 500γ trends associated with the condrs.		5 condrs. have been drilled. (90503)	Fairly heavy mineralized areas of Py, disseminated Po and bands of Gf.	More work warranted on remaining condrs.	
90517	Elbow Lake-2 Claim Blocks	Prospectors Airways	1957	1200 Hz., Detail method. 2 long str. to med. condrs. and 1 med. condr. Crone, 1000 Hz., Detail method. 2 str. condrs.		Radar. 18.3γ/ sc. div. Mag. survey over the area of the 2 long str. condrs. 5 trends of up to 1000γ. flanking the E.M. condrs.		The str. condrs. have been drilled.	#1-3'' vein Cp. 16' massive Py 28' massive sulphides (Po, Py some Gf). #2-32' 6% Py, 25' 10% Po, some Gf, tr. Hem, Asp, Mag, Cp. #3,4 — 5' mixed Zn, Py mineralization tr. Cu, 7' Gf, 35' fair-good sulphides (Py, Po, Sp, tr. Cp) (90643, 90516)	More work warranted on the med. condrs.	Information from drilling in the area west of a line from approx. one km east of Century Island to the area covered by file 90514 indicates the presence of considerably more rhyolitic rocks than shown on the geological base. In addition Zn is commonly present in minor amounts (0.95 to 1.44% Zn in two drill holes).

TABLE 7 — ELBOW LAKE AREA 63K/15 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90514	North of Elbow Lake	Straus Expl.	1971		Ronka, 2400 Hz., Coil sep. 300'. 1 str. and 2 wk. condrs.	Sharpe MF-1, 2 anomalies of 300γ coinciding with the wk. condrs.		The str. and 1 wk. condrs. have been drilled.	Wk. condr. Gf bands carrying massive bands Py, Po, 10' near massive Py,dissem-inated Po, rare bleb Cp. Str. condr. 128' tr. Cu 0.05% Zn. (2' of 0.45% Cu and 5' of 0.11% Zn). (91536, 90515)	No work warranted.	Massive sulphides and graphite inter-sections are common in this area.
90501 91485 91487 92149	Elbow Lake	Manitoba Minerals	1972-1973		EM-17, 1600 Hz., Coil sep. 300'.						
92654	Claim 'A'				2 str. and 1 wk. condr.			The 2 str. condrs. have been drilled.	80' of siltstone containing Py, Gf, tr. Cp.	No work warranted.	
	Claim 'B'				Many str. and med. condrs.			All the condrs. have been drilled.	Wide inter-sections of Gf schist with Py.	No work warranted.	

TABLE 7 — ELBOW LAKE AREA 63K/15 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90643 92042	Elbow Lake	Noranda Expl.	1971		Ronka MK III 2400 Hz. Coil sep. 300'.						
	Grid 'A'				4 str. condrs.			3 str. condrs. drilled.	Mass. Py, Po, tr. Cp.	Work warranted on remaining condr.	
	Grid 'B'				Same condrs. as 90517.			All the condrs. have been drilled.	Mass. Py, Gf in western condrs. (91487)	More work warranted.	
	Grid 'C'				6 str. and 1 med. condr.			All the condrs. have been drilled.	Mass. Py, Po, Gf, tr. Cp.	No work warranted.	
	Grid 'D'				2 str. condrs.			Both condrs. have been drilled.	Mass. Py, Po (1.1' of 0.95% Zn in northern condr.).	I.P. survey warranted.	
92514 92515	Webb Lake	Granges Expl.	1982		ABEM Gun, 2400 Hz., Coil sep. 300'. 2 str. condrs.			The condrs. have been drilled.	Py, Po, Gf tr. Cp, tr. Sp.	No work warranted.	
91487	Sulphide Lake	Noranda Expl.	1971		Ronka MK III, 2400 Hz., Coil sep. 300'. 1 str. condr.			The condr. has been drilled.	20' of mass. Po. (92654)	No work warranted.	
90498	Claw Lake	Prospectors Airways	1957	Sharp SE-100, 1 med. condr.						Horizontal loop. E.M. warranted.	

TABLE 7 — ELBOW LAKE AREA 63K/15 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90508	Claw Lake	Hudson Bay	1963		2400 Hz., Coil sep. 200'. 1 med. condr.			The condr. has been drilled.	Py.	No work warranted.	
90476	Elbow Lake 2 Claim Blocks	Hudson Bay	1964-1965		Ronka MK-III, 2400 Hz., Coil sep. 200'. 1 long str. to wk. condr. and 1 wk. condr.			The condrs. have been drilled. (90294, 90500)	Py, Gf.	No work warranted.	
91954	Elbow Lake	Noranda Expl.	1971		Ronka Mark-III, 2400 Hz., Coil sep. 300'. A few str. and med. condrs.			All the condrs. have been drilled.	60' massive Gf with int. of massive Py in stringers. 1/4" streak solid Sp, 0.8' solid Cp, 12' N.S.S. 10' near solid Po, slight Py, tr. Cp, Po, Sp. Several Mag. bands tr. Asp. (90643, 90500, 91485, 91487, 92654)	No work warranted.	Possibly at the same stratigraphic level as felsic volcanics at the north end of Elbow Lake.
91955	Elbow Lake	Juma Mining	1963			Sharpe A2. 2 anomalies of 1000γ.		The mag. anomalies have been drilled.	Magnetite. One hole intersected 1.4' of 0.88% Cu.	No work warranted.	

TABLE 7 — ELBOW LAKE AREA 63K/15 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
91580	Elbow Lake	Granges Expl.	1974		2400 Hz., Coil sep. 300'.						
	Claim Block 1				1 str. condr.			The condr. has been drilled.	Shear zone. (Hole very shallow 70' vertical).	More work warranted.	A basaltic pillow lava, basaltic and rhyolitic fragmental volcanogenic sediment sequence on strike to the southeast.
	Claim Block 2				5 wk. condrs.			1 condr. has been drilled.	Py.	More work warranted.	
92463	Elbow Lake	Noranda Expl.	1971		Ronka MK III 2400 Hz., Coil sep. 300'.						
	Grid 'A'				1 str. condr.			The condr. has been drilled.	No logs.		
	Grid 'B'	Manitoba Minerals	1973		ABEM Gun 2400 Hz., Coil sep. 300'. 2 med. condrs.			The condrs. have been drilled.	Py, Po, tr. Cp.	No work warranted.	
	Grid 'C'		1973		EM-17, 1600 Hz., Coil sep. 300'. 3 wk. condrs.					More work warranted.	
92654	Northwest corner of NTS sheet	Granges Expl.	1980-1981		2400 Hz., Coil sep. 300'. 3 med. condrs.			All the condrs. have been drilled.	No logs.		
90497	North Star Lake	Hudson Bay	1956		Loop Frame, 3600 Hz., No condrs.			2 holes drilled. Basic volcanics. (92111)		No work warranted.	

TABLE 7 — ELBOW LAKE AREA 63K/15 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90488	Norris Lake	Hudson Bay	1956-1957		Loop Frame, 3600 Hz. Many str. condrs.			Most of the condrs. have been drilled.	The condrs. in northern part of claim block -Py, Po with odd specks of Cp, Sp in places.	More work warranted on southern condrs.	
90489	Loonhead Lake	Hudson Bay	1956-1957		Loop Frame, 3600 Hz. Many str. condrs.			All the condrs. have been drilled.	Py, Po, near solid in places. Tr Cp, Sp and Pb in western condr. (Some logs not available).	No work warranted.	The long conductor is probably a formation sulphide layer. Massive sulphide type alteration with Cp + Sp was intersected in drill holes at two locations along the conductor.
90490	Loonhead Lake	Hudson Bay	1956-1957		Loop Frame, 3600 Hz. Many str. condrs.			All the condrs. have been drilled.	Py, Po, near solid in places. Stringers Cp + Sp in long condr. (91607, 91608)	No work warranted.	
90492	Loonhead Lake Grid 'A'	Hudson Bay	1962		No report. 1 str. condr.			The condr. has been drilled.	Py, Po, tr. Cp.	No work warranted.	
	Grid 'B'				2 med. condrs.			The condrs. have been drilled.	Py, Po, tr. Cp.	No work warranted.	
	Grid 'C'				1 str. condr.			The condr. has been drilled.	Gf, Py.	No work warranted.	

TABLE 7 — ELBOW LAKE AREA 63K/15 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90491	North Star Lake	Hudson Bay	1956-1957		Loop Frame, 3600 Hz. Many str. condrs.			All the condrs. have been drilled.	Holes north of North Star Lake Py, Po, tr. Cp. (90493)	No work warranted.	
90496	North Star Lake	Hudson Bay	1957		No report. 5 str., 1 med. and 1 wk. condr.			All the condrs. have been drilled.	Py, Po, Gf, tr. Cp.	No work warranted.	
90250	Sewell Lake 63K-9, 10, 15, 16	Hudson Bay	1957		No specs. 4 long str. condrs.			The condrs. have been drilled.	Py, Po and stringers of Cp.	No work warranted.	
90494	Sewell Lake	Hudson Bay	1971		2400 Hz. Coil sep. 300'. 3 wk. condrs.					More work warranted.	Felsic unit is a continuation of the felsic rocks in the Dickstone area.
92441 92443	Sewell Lake	Granges Expl.	1979		ABEM Gun 2400 Hz., Coil sep. 300'.						
	Grid 'A'				2 wk. condrs.			Both condrs. have been drilled.	Py, tr. Cp, tr. Sp.	No work warranted.	
	Grid 'B'				1 str. and 1 med. condr.			Both condrs. have been drilled.	Po, tr. Cp, tr. Sp.	No work warranted.	
	Grid 'C'				1 str. and 1 med. condr.			Both condrs. have been drilled.	Py, Po.	No work warranted.	
	Grid 'D'				2 str. 1 med. and 1 wk. condr.			All the condrs. have been drilled.	Py, Po.	No work warranted.	

TABLE 8 — FILE LAKE AREA 63K/16 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90045	Norris Lake	Hudson Bay	1965-1966		2400, 3520 Hz. Coil sep. 200'. Many str. condrs.			The condrs. have been drilled.	Up to 70' inter-sections of mass. Gf, Py, Po.	Assay for PM and Ag recommended.	There are showings on most of the condrs.
92112	Morton Lake 3 Claim Blocks	Falcon-bridge	1966			Barringer nuclear precession. One 500γ anomaly.	AFMAG-Long wire. 2 str. condrs. One condr has mag. ass. (Dickstone orebody).	The condrs. have been drilled.		No work warranted on southern claim block.	
90046	Norris Lake	Madsen-Red Lake Gold Mines	1956			Sharpe A-2, 21.6γ/sc div. A 1000γ trend assoc. with the condrs. of 90045.					
90041	Morton Lake	Hudson Bay	1956		Loop Frame, 3600 Hz. Many str. condrs.			All the condrs. have been drilled. (90056, 90202, 90495) S.W. condrs. narrow int. of mass. Po, Py, tr. Cp.	N.E. condrs.-Po and Cp stringers, 20' Gf sch. N.W. condrs. 60' N.S. Py, Po, tr. Cp. 5' specks and stringers of Sp.	No work warranted.	The long strong condr. is caused by the Dickstone Orebody.
90036	Morton Lake	Hudson Bay	1956		Loop Frame, 3600 Hz. 4 str. condrs.			The long str. condr. has been drilled.	3' of 5% Cp. 7' of Py, Po.	Borehole geo-physics warranted.	

TABLE 8 — FILE LAKE AREA 63K/16 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90043	File Lake, Morton Lake - 2 Claim Blocks — A, B	Hudson Bay	1956		Loop Frame, 3600 Hz.						
	Claim Block A				Many str. condrs.			All the condrs. have been drilled.	Py, Po — near solid in places.	No work warranted.	Most of the rocks in this area are overlying the Dickstone Mine horizon. The area has been mapped in detail by A. Bailes at 1:25 000.
	Claim Block B				3 str., 5 med. and 1 wk. condr.			All the condrs. have been drilled. S.W. condrs. narrow int. of Po, Py, Gf, tr. Cp. (90202, 90495)	60' section of mineralized 5-20% Po, Py, tr. Zn and blebs Cp. Med. central condrs. Po & Py in veinlets & disseminations. Gf schist. Northern condrs.- Po, Py, Gf.	More work warranted on the northern condrs.	
90489	Norris Lake	Hudson Bay	1956		Loop Frame (Same survey as 90043).						
90039	File Lake	File Lake Expl. Ltd.	1959	No specs. Detail method. No condrs.		No specs. 2 trends of 500γ each.				No work warranted.	

TABLE 8 — FILE LAKE AREA 63K/16 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
92508	Morton Lake	Hudson Bay	1979		Max. Min. 1777 Hz. Coil sep. 400'. 1 wk. condr.			The condr. has been drilled.	Arg, Gf, Py.	No work warranted.	
91505	Morton Lake	Noranda Expl.	1975	Crone Unipod type. 1800, 5000 Hz. Detail method. One str. long condr. with mag. assoc.		McPhar M-700. A 200 to 300γ anomaly coincident with the condr.		Hudson Bay drilled condr. north of claim block (from report). Noranda's hole abandoned.	Gf, Py, Po.	More work warranted.	
90054	Morton Lake	Northern Canada Mines Ltd.	1956		Loop Frame, 3600 Hz. Coil sep. 200'. No condrs.			One hole drilled	Diss. Py, Po.	No work warranted.	
90250	Morton Lake 63K-9, 10, 15, 16	Hudson Bay	1957		No specs. 4 med. condrs.			All the condrs. have been drilled. (90053)	East condr.- Some alteration adjacent to fractures, 100' rhyolite with parts N.S.S., Po and minor Py. Slight Cp sections mineralized with Mag. Several narrow stringers Po and Py.	No work warranted.	Parts of this area are underlain by the felsic volcanic unit hosting the Dickstone deposit.

TABLE 8 — FILE LAKE AREA 63K/16 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90037	Morton Lake	Hudson Bay	1957-1958		Loop Frame. 3600 Hz. No condrs.					No work warranted.	
90038	Morton Lake	Hudson Bay	1958		Loop Frame, 3600 Hz. No condrs.					No work warranted.	
90055	Morton Lake	Hudson Bay	1956		Loop Frame, 1 str. condr.			The condr. has been drilled.	3 to 4' inter-sections of mass. Po, Py.'	No work warranted.	
90495	Morton Lake	Hudson Bay	1956		Loop Frame, 3600 Hz. 1 med. condr.			The condr. has been drilled.	Arg, Gf, Py.	No work warranted.	
92509	Morton Lake	Hudson Bay	1979		Max. Min. 1777 Hz. Coil sep. 400'. 1 med. condr.					More work warranted.	
90201	Eleven Claim Blocks	Hudson Bay	1965		Ronka MK III 2400 Hz., Coil sep. 200'.						
	Woosey Lake Grid A				Same condr. as 91847B.			The condr. has been drilled.	Gf, Py.	No work warranted.	
	Grid B				Same condrs. as 91847H and 90022.			The condrs. have been drilled.	Po, Gf, Py.	No work warranted.	
	Grid C				1 med. condr.			The condr. has been drilled.	Gf, Py.	No work warranted.	
	Grid D				1 str. condr.			The condr. has been drilled.	25' of mass. Po, Gf.	No work warranted.	

TABLE 8 — FILE LAKE AREA 63K/16 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
	Grid E				Same condr. as 90022.			The condr. has been drilled.	55' of mass. Gf, Po, Py.	No work warranted.	
	File Lake Grid F				7 str. condrs.			The condrs. have been drilled.	Wide intersections of mass. Gf, Py.	No work warranted.	
	Grid G				1 str. and 1 wk. condr.			The condrs. have been drilled.	10' of mass. Gf, Py in each hole.	No work warranted.	
	Grid H				1 med. condr.			The condr. has been drilled.	12' of mass. Gf, Py.	No work warranted.	
	Grid I				1 med. condr.			The condr. has been drilled.	Gf, Py.	No work warranted.	
	Grid J				No condrs.					No work warranted.	
	Grid K				1 str. and 1 wk. condr. in southwest.			Both condrs. have been drilled.	Wide intersections of Gf, Py.	No work warranted.	
91612	Two Isle Lake	Hudson Bay	1973		Ronka Mk III 2400 Hz. Coil sep. 300'. 1 str. and 3 med. condrs.			The condrs. have been drilled.	Gf, Py, Po.	No work warranted.	
90022	Woosey Lake	Northern Canada Mines Ltd.	1955 & 1958		Loop Frame,, 3600 Hz. Coil sep. 200'. 2 str. and 1 med. condr.	Sharpe A-2 Schmitt type. One mag. trend of 800γ.		The mag. trend has been drilled. The 2 str. condrs. have been drilled.	Western condr.-350' of 40-50% Po, 30-40% Gf, 15-20% Py, 38' of 30% Fe, 14' of 0.2% Cp. Eastern condr.-100' of banded argillite with Py, Gf.	Assay for Au.	

TABLE 8 — FILE LAKE AREA 63K/16 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90232	Woosey Lake	Selco Expl.	1957	1000 Hz. Broadside 1 med. condr.				The condr. has been drilled.	56' of 10-20% Py, 16' with 25% Py stringers, 24' of 40-50% Po and 20-30% Gf.	Assay for Au.	Stratigraphic section in this area is probably equivalent to that in the Chisel Lake area. Detailed mapping of the area warranted.
91568	Morgan Lake	Straus Expl.	1972		ABEM, EM Gun, 3520 Hz., Coil sep. 300'. 1 med. condr.	MF-1. 3 narrow trends of 500γ.		The condr. has been drilled.	56' of 10-20% Py, 16' with 25% Py stringers, 24' of 40-50% Po and 20-30% Gf.		
91964	Morgan Lake 63K-9, 16	Granges Expl.			ABEM, 2400 Hz. Coil sep. 300'. 1 wk. condr.					More work warranted.	
91927	Morgan Lake Area	Hudson Bay	1954		No specs. Many str. & wk. condrs.			Nearly all the condrs. have been drilled. (90028, 90029, 90030, 90031, 90066). Drilling in and west of Pot Lake 350' of Chl. Sch with Py and some Cp and Sp.	S.W. condrs. Section of slight well mineralized Py, and Po, tr. Sp, Cp. S.E. condrs. -altered Hb, slight Po and Py, specks Sp, Cp. N.W. condrs.-Gf seds. with Py. N.E. condrs.-Gf, Py, Po.	Deep penetrating EM warranted in southern part of Claim Block.	This area contains the favorable stratigraphy of the Chisel Lake-Anderson Lake areas. Detailed mapping of the area warranted to establish stratigraphic correlations

TABLE 8 — FILE LAKE AREA 63K/16 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
91847	Ham Lake - Woosey Lake Claim Block A	Granges Expl.	1973-1974		2400 Hz. Coil sep. 300'. 1 str. condr.			The condr. has been drilled. (91946)	Gf, Py, Po.	No work warranted.	
	Claim Block B				2400 Hz. Coil sep. 300'. 1 med. condr.			The condr. has been drilled.	Gf, Py.	No work warranted.	
	Claim Block C				1600 Hz. Coil sep. 400'. 3 wk. condrs.	MF-2. One 800γ anomaly not coincident with condr.		One wk. condr. has been drilled.	Clay.	No work warranted.	
	Claim Block D				2400 Hz. Coil sep. 300'. 1 str., 1 med. & 1 wk. condr.			The str. condr. has been drilled.	2% Py, 2% Cp, 2% Sp over 4'.	Lower freq. E.M. warranted on med. condr.	
	Claim Block E				2400 Hz. Coil sep. 300'. 1 str., 1 med. and 1 wk. condr.			The str. and med. condrs. have been drilled.	Gf, Py.	No work warranted.	
	Claim Block F				2400 Hz. Coil sep. 300'. No condrs.					No work warranted.	
	Claim Block G				2400 Hz. Coil sep. 300'. 1 str. condr.			The condr. has been drilled.	Near solid Po, Py in places.	No work warranted.	

TABLE 8 — FILE LAKE AREA 63K/16 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
	Claim Block H				2400 Hz. Coil sep. 300'. 1 str. condr.			The condr. has been drilled.	Gf, Py.	No work warranted.	
	Claim Block I				2400 Hz. Coil sep. 300'. 1 str. condr.			The condr. has been drilled.	Gf, Py.	No work warranted.	
	Claim Block J				2400 Hz. Coil sep. 300'. 1 str. condr.			The condr. has been drilled.	Gf, Py.	No work warranted.	
	Claim Block K				2400 Hz. Coil sep. 300'. 2 med. condrs.			1 med. condr. has been drilled.	Po, Py, Gf.	More work warranted.	
	Claim Block L				2400 Hz. Coil sep. 300'. 1 med. cond.			The med. condr. has been drilled.	Gf, Py.	No work warranted.	
90034	North West Arm Woosey Lake	Hudson Bay	1957		Loop Frame, 3600 Hz. 1 med. and 1 wk. condr.					Lower freq. E.M. warranted.	
90044	Morton Lake	Hudson Bay	1957		Loop Frame, 3600 Hz. 3 short str. and 2 wk. condrs.			3 str. and 1 wk. condr. have been drilled. Southern str. and wk. condr. Py, Po. (90196)	Northern str. condr. - 20' with sections of 2-4% Po, Py. Parts Gf with tr. Zn and blebs Cp.	No work warranted.	

TABLE 8 — FILE LAKE AREA 63K/16 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90035	File Lake	Cleveland-Canadian Expl.	1957		Loop Frame, 3600 Hz. Coil sep. 200'. 3 str. condrs. but only on one line.			The 3 condrs. have been drilled.	N.W. condr. -7' of 20-30% Po, 5% Py. S. condr.-25' of 15% Py, 20' of 5% Po, tr. Cp. N.E. condr. -28' of 10% Po, 20' of 5% Py. (90201)	No work warranted.	Dominantly mafic lavas, stratigraphic position uncertain.
91914	File Lake	Canadian Nickel	1958			Sharpe A-2, Sens. 28γ/sc. div. One 400γ anomaly.		The mag. anomaly has been drilled. (91897)	Argillite with Gf and Py.	No work warranted.	
90206	Cook Lake	Conwest Expl.	1964		E.M. gun 1 str. condr. on one line.			The condr. has been drilled. (90020)	Disseminated Py with tr. Cp.	No work warranted.	
90196	Northwest Arm-Woosey Lake	Hudson Bay	1957		Loop Frame, 3600 Hz. 1 wk. condr.			The condr. has been drilled.	Fault zone containing Gf.	No work warranted.	
92403 92404	Woosey Lake	Hudson Bay	1978		Max. Min. 1777 Hz. Coil sep. 400'. 3 str. and 2 med. condrs.			The str. condrs. have been drilled.	Western condr.-Gf argillite. Eastern condr. Sch.	No work warranted.	
92445	Woosey Lake	Hudson Bay	1973				Turam, 660 Hz., Coil sep. 100'. 4 str., 2 med. and 3 wk. condrs.	3 str. and 1 med. condr. drilled.	Gf, Py, tr. Cp.	More work warranted on remaining condrs.	

TABLE 8 — FILE LAKE AREA 63K/16 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90235	Tramping Lake Area	Jay Kay Expl.	1954	1000 Hz. Broadside & detail. 2 str. condrs. One has mag. association.	Loop Frame, 3600 Hz. 2 str. condrs. coinciding with the VLEM condrs.	No specs. One anomaly of 1500γ coinciding with one condr.		The condrs. have been drilled. (90065)	Northern condr.-48' massive Py, Po, 2' of 3% Cp. Southern condr.-15' of diss. Py, 10' of 5-10% diss. Po.	Borehole geophysics warranted on the northern condr.	The long str. condr. with mag. association caused by the Pot Lake mineral deposit.
90231	Tramping Lake	Hudson Bay	1955		Loop Frame, 3600 Hz. 2 med. condrs.			The condrs. have been drilled.	29' of N.S. Py, Po, tr. Sp, Cp, 2' altered zone chlorite scattered Mag. 2.5' leached Py.	No work warranted.	
90058	Tramping Lake	Hudson Bay	1955		Loop Frame, 3600 Hz. 2 str., 3 med. and 1 wk. condr.			All the condrs. have been drilled. (90032, 90060, 92104) Str. condrs.-Gf, Py and Py, Po, tr. Cp, tr. Sp.	The northern med. and weak condrs.-zones of Fe oxides, 1.5' N.S. Po, Py, Cp, 13' N.S. Po tr. Sp. Med. condrs.-chlorite in schist-slight fracturing.	No work warranted.	Lithologies along Berry Creek are probably equivalent in part to the host rocks of the Stall Lake Mine area. Locality 43 of Harrison (SW corner of Anderson Lake) is a major alteration zone that lies close to the same stratigraphic level as the Anderson Mine.

TABLE 8 — FILE LAKE AREA 63K/16 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90021	Tramping Lake	Hudson Bay	1955		Loop Frame 3600 Hz. A few str. and med. condrs.					More work warranted.	Loacity of 51 of Harrison (Tramping Lake) has a large zone of alteration. Some of the conductors have probably been drilled since there are core racks on the northern tip of the peninsula.
90239	Tramping Lake	Conwest	1964		ABEM Gun same condrs. as 90236.						
90033	Chisel Lake	Hudson Bay	1955		No report. 3 med. condrs.			The condrs. have been drilled.	Specks of Py, Cp.	No work warranted.	
92174	Tramping Lake	Straus Minerals	1973				Turam, 220 and 660 Hz. 3 str. and 2 med. condrs.	The condrs. have been drilled.	Py (6' of 1.2% Zn, tr. Cp in one hole)		
90067	Edwards Lake	Hudson Bay	1955		Loop Frame, 3600 Hz. 6 short str. and 2 med. condrs.			Six condrs. have been drilled.	Gf, Py, Po, tr. Cp.	More work warranted.	
90199	Edwards Lake	Canadian Nickel Company	?	1000 Hz. 2 str. and 1 med. condr. with mag. assoc.		MF-1. A few anomalies of 200 to 800γ.		All the condrs. have been drilled.	Med. condr. -volcanics with scattered streaks of disseminated sulphides. 1.7' N.S.S. Po, Gf, slight Py. Str. condr. -50' N.S.S., Po, tr. Sp and Cp.	No work warranted.	

TABLE 8 — FILE LAKE AREA 63K/16 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
98775	Claim Block C	Hudson Bay	1955-1956		Loop Frame, 3600 Hz. 1 str. & 1 wk. condrs.			The condrs. have been drilled. (90059)	Wk. condr.-tr. Py, tr. Cp. Str. condr.-12' & 30' of solid Po, tr. Cp, tr. Sp.	No work warranted.	
90027	Claim Block B	Hudson Bay	1955-1956		Loop Frame, 3600 Hz., 2 wk. condrs.			The condrs. have been drilled. (90025)	Southern condr.-slight Py. Northern condr.-shearing 60' diss. Cp, 8' fair to well mineralized Cp, tr. Po, Py, Mag.	More work warranted.	
90024	Tramping Lake-Morgan Lake	Selco Expl.	1956		Loop Frame, Coil sep. 200', 2 str. and 1 med. condr.			One str. condr. has been drilled.	6'' seam of 60% Po, 32' mass. Po, Py, specks of Cp.	More work warranted.	The str. condr. caused by the Pot Lake deposit.
90233	Tramping Lake	Newkirk Mining	1956	Sharpe unipod, 1000 Hz., 4 str, 4 med. and 2 wk. condrs.		Sharpe A-2, sen. 10γ/sc. div. Anomalies of 300γ along eastern boundary of claim block.	Resistivity. The resistivity anomalies and E.M. condrs. coincide. Two resistivity anomalies in southwest where no E.M. coverage is known.	Some condrs. have been drilled.	Argillite, tr. Py, Sp, Po and Cp. On S.W. hole 3.2' intersection of 1.48% Zn.	More work warranted.	The condrs. are situated in argillites and greywackes. One med. condr. and resistivity anomaly outlines a north-south fault.

TABLE 8 — FILE LAKE AREA 63K/16 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90236	Tramping Lake	Selco Expl.	1957		Loop Frame, 3600 Hz. 6 str. condrs.					More work warranted.	
90016	Claim Block D (Anderson Lake)	Hudson Bay	1957		No specs. 2 wk. condrs. (Same as 90027)			The condrs. have been drilled. (90025)		More work warranted.	Mineral occurrence. (Joannie alteration zone).
90238	Between Morgan and Tramping Area	Kerr-Addison	1964	Crone JEM, 1800 Hz. No condrs.						No work warranted.	
91947	Tramping Lake 63K-16, 63K-9	Hudson Bay	1964		2400 Hz., 3 str. condrs.			Two condrs. have been drilled. (90065)	Northern condr.-48' mass. Py, Po, 2' of 3% Cp. Southern condr.-15' of fine diss. Py, 10' of 5 to 10% diss. Po.	Borehole geophysics warranted on the northern condr.	
90023	Claim Block B — Morgan Lake	Falcon-bridge Nickel	1970			Barringer G.H.-102, One 800γ anomaly.	AFMAG-Long Wire. 1 str. and 5 short med. condrs. The str. condr. has mag. assoc.	The str. condr. has been drilled.	Po, Py, tr. Cp, tr. Sp.	E.M. warranted on the med. condrs.	Lithologies along Berry Creek are probably equivalent in part to the host rocks of the Stall Lake Mine area. Locality 43 of Harrison (SW corner of Anderson Lake) is a major alteration zone that lies close to
	Claim Block C — Morgan					No anomalies.	1 med. condr.			E.M. warranted.	

TABLE 8 — FILE LAKE AREA 63K/16 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
	Claim Block D — Tramping Lake					5 anomalies from 300 to 600γ.	2 str. and 4 med. condrs. One med. condr. has mag. assoc.	1 str. condr. has been drilled. 1 med. condr. has been drilled. (92105)	Str. condr. -fracture zone of Lm, Hem, scattered Po, Py, tr. Cp, Sp. Med. condr. - Py.	E.M. warranted.	the same stratigraphic level as the Anderson Mine. Locality 51 of Harrison (Tramping Lake) has a large zone of alteration. Some of the conductors have probably been drilled since there are core racks on the northern tip of the peninsula.
98775	Squall Lake to Morgan Lake	Hudson Bay	1955-1956		Loop Frame, 3600 Hz.						
	Claim Block A				1 wk. condr.			The condr. has been drilled.	Scattered Py stringers, parts Gf.	No work warranted.	
	Claim Block B				3 str., 2 med. & 3 wk. condrs.			The str. and med. condrs. have been drilled. (90026)	Northern str. & med. condrs.-20' Gf schist with slight Py, tr. Sp, Cp, 7' shear zone. Southern condr. varying stages of alteration-fracture zones and 10' of mineralized diss. to N.S. Py, with slight Sp, Cp, Po, 1.5' of Sp, N.S. Py.	No work warranted.	The Bomber occurrence at the south end of Cook Lake is probably at the same stratigraphic horizon as the Chisel Lake Mine.

TABLE 8 — FILE LAKE AREA 63K/16 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90027	Squall Lake Anderson Lake 2 Claim Blocks- A & B	Hudson Bay	1956		Loop Frame, 3600 Hz.						
	Claim Block A				2 str. and 1 wk. condr.			The str. condrs. have been drilled.	40' of scattered Gf, narrow stringers & globs Py, slight Po, a few Asp. needles.	No work warranted.	
90016	Squall Lake - Anderson Lake 4 Claim Blocks — A, B, C & D	Hudson Bay	1957		No specs.						
	Claim Block A				1 med. & 2 wk. condrs. along shear zone.			The condrs. have been drilled.	Gf, Py.	No work warranted.	Felsic volcanic rocks of the Chisel Lake and Anderson Lake areas probably continue through this area, around the Squall Lake Dome and NW from Squall Lake.
	Claim Block B				1 weak condr.			The condr. has been drilled.	Py, tr. Cp.	No work warranted.	
	Claim Block C				1 str. & 2 wk. condrs.			1 str. and 1 wk. condr. have been drilled.	Gf, Py, Po.	No work warranted.	
90023	Squall Lake & Morgan Lake 4 Claim Blocks — A, B, C, D	Falcon-bridge Nickel	1970			Barringer GM-102.	AFMAG Long wire.				

TABLE 8 — FILE LAKE AREA 63K/16 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	CAUSE OF ANOMALY	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
	Claim Block A — Squall Lake					One 200γ trend.	1 str., 1 med. & 1 wk. condr.			E.M. warranted.	
90203	Snow Lake - Birch Lake	Nor Acme Gold Mines Ltd.	1971 & 1973		E.M.-17 1600 Hz. Coil sep. 300'. A few wk. condrs.	MF-1. No anomalies.	Turam. 220 & 660 Hz. Coil sep. 100'. A few wk. condrs.	1 condr. drilled.	Sediments.	More work warranted.	This area may represent a continuation of stratigraphy of the Anderson Lake area on the north side of the Snow Lake fault.
90163	Snow Lake	Canadian Nickel				MF-1. One anomaly of 2000γ.				E.M. has been carried out.	
90040	Snow Lake	Leedoro Snow Lake Gold Mines	1946			Wolfson Vertical variometer, 28.2γ/sc. div. 3 trends of approx. 400γ each.		2 holes drilled.	Basic volcanics Py, Po.	E.M. warranted.	Western part of area contains contact zone that is stratigraphically equivalent to the Chisel Lake Mine.
91896	Snow Lake	Raynor Mining			E.M. gun, 3520 Hz. Coil sep. 300' (readings omitted).	MF-1. Many anomalies of 200 to 1000γ.				E.M. warranted.	

TABLE 9 — HERB LAKE AREA 63J/13 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	MINERALIZATION	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90070	Wekusko Brook	Falcon-bridge				No anomalies.			Diss. to solid Sp, Pb, Cp, Py, Po.	More work warranted.	Silicified biotite-quartz-feldspar-garnet gneiss hosting poly- metallic massive sulphide-type mineralization. Sample assay gave 8.60% Zn, 1.41% Pb and 302 ppm Ag.
90071	Crowduck Bay	Magnetawan Iron Mines Ltd.	1956	1000 Hz. In areas of mag. anomalies only. 1 med. condr.		Sharpe A-2. 5 anomalies of up to 2000γ.		Some holes have been drilled.	Multiple holes. Diss. Po and tr. Cp. Other holes — diss. Po.	No work warranted.	
90076	Niblok Lake Extreme east of 63J-13	Hudson Bay	1967		2400 Hz. Coil sep. 300'. Many str., med. and wk. condrs.			A few holes have been previously drilled. (90079)		More work warranted.	Massive and pillow basalt with layers of rhyolite tuff and lapilli tuff.
90077 90083	Extreme north of 63J-13	Hudson Bay	1969				Turam. 660 Hz. Many str. and med. condrs.	4 holes drilled.	Py, Po. 150' of massive Gf, Po, Py in one hole.	No work warranted.	Interlayered felsic pyroclastic and volcaniclastic rocks, amphibolite and pink granitoid gneiss. Felsic rocks represent the eastern extension of the Osborne Lake Cu-Zn massive sulphide deposit.

TABLE 9 — HERB LAKE AREA 63J/13 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	MINERALIZATION	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90079	Niblok Lake	Selco Expl.	1958	1000 Hz. Same condrs. as 90076.				A few of the condrs. have been drilled.	Py, Po, Gf. Northern condr. 170' of Gf, Py. Southern condr. Py, Po, tr. Cp.	More work warranted.	Predominantly mafic flows intruded by quartz-feldspar porphyry, minor greywacke, silicified and garnetiferous basalt. Earthy pyrite layers and 5'-10' of near solid Py and Po cause anomalies.
90080	Extreme north of 63J-13	Selco Expl.	1957		Loop Frame. 3600 Hz. A few str. and med. condrs.			The condrs. have been drilled.	Py, Po, Gf. 100' of massive Gf, Py in one hole.	No work warranted.	Amisk Group quartz-phyric felsic pyroclastic and volcaniclastic rocks and pegmatite intrusions.
90085	Osborne Lake	Hudson Bay	1952		No report. 2 str., 2 med. and 1 wk. condr.			1 str. and the med. and wk. condrs. have been drilled.	Gf, Py.	No work warranted.	These rocks include the host rocks to the Osborne Lake Cu-Zn deposit.
90090 91813	Herb Bay	Noranda Expl.	1965		Ronka MK III 2400 Hz. A few str. and wk. condrs.			The str. condrs. have been drilled.	Gf, Py.	No work warranted.	Greywacke and shale intruded by granite pegmatites. Anomalies caused by sheared beds of disseminated to mass Gf, and Py.
91412	Extreme north of 63J-13	Canadian Nickel	1971			MF-1. 3 anomalies of up to 3000γ.		The str. anomaly has previously been drilled. (91411, 91413)	No mineralization.		Missi Group lithic arenite with interlayered amphibolite.

TABLE 9 — HERB LAKE AREA 63J/13 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	MINERALIZATION	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
91795	Herb Bay	J.B. Barton	1969			Barringer GM-102. No anomalies.	AFMAG long wire. Same condrs. as 90090.	The condrs. have been drilled	Diss. Cp, Po, Py.	No work warranted.	Gabbro intrusions with associated diss. Cu-Ni mineralization. Potential for PGE mineralization. At Herb Bay Amisk Group greywacke and shale are intruded by gabbro.
91812	Herb Bay	Kennco Expl.	1964			ABEM torsion mag. 2 anomalies.		One anomaly has been drilled.	Diss. Cp, Po, Py.	No work warranted.	
92029	Herb Bay	Hudson Bay	1971				Turam. No report. Same condrs. as 90090.	The condrs. have been drilled.	Diss. Py, tr. Cp.		Greywacke and shale intruded by granite pegmatite. Pyrite occurs as diss. and blebs up to 5% over 26'.
92490	Grassy River	Granges Expl.	1982		ABEM gun. 2400 Hz. coil sep. 300'.						
	Grid 'A'				One str. condr. on one line.					More work warranted.	Biotite granite and granite gneiss.
	Grid 'B'				One med. condr. on one line.					More work warranted	Mafic flows and breccia.

TABLE 9 — HERB LAKE AREA 63J/13 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	MINERALIZATION	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90086	Snow Bay	Kerr-Addison Mines Ltd.	1964	Crone JEM 1800 Hz. 1 str., 2 med. and 1 wk. condr.				The str. condr. has been drilled. (90134)	Py, Po.	More work warranted.	Fragmental and quartz-phyric felsic pyroclastic and volcaniclastic rocks. Silicified and carbonate altered mafic volcanic rocks. Along strike extension of Stall Lake and Rod Cu-Zn deposits.
90119 90135 90136 90138 90140 90142 90153 91576	Northwest of sheet 63J-13 Grid 'A', 'B', 'C'	Hudson Bay	1956		Loop Frame. Many str. & wk. condrs.			Some of the str. condrs. have been drilled (no logs).	Holes near Snow Bay-Gf. (90122, 90156) Near Snow Lake Gf, Py (90133) Py, Po, tr. Cp, tr. Sp in one hole (90152). Northern holes (Grid 'A')-2' intersections of mass. Py, Po, tr. Sp, tr. Cp (90156). Grid 'B'-2' intersections of mass. Po, Py (90103).	The wk. condrs. probably caused by lake bottom.	Amisk Group felsic pyroclastic and volcaniclastic rocks which include the host rocks to the the Anderson Lake, Stall Lake and Rod Zn-Cu and Cu-Zn massive sulphide deposit.
90132	Herblet Lake	Falconbridge	1966			Barringer Precession Mag. No anomalies.	AFMAG long wire. 1 med. condr.			The condr. probably caused by lake bottom.	Quartz-feldspathic gneiss (Gneiss Dome) amphibolite and lithic arenite with amphibolite layers.

TABLE 9 — HERB LAKE AREA 63J/13 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	MINERALIZATION	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90144	Osborne Lake	Gunnex Ltd.	1966			ABEM MZ-4. One 1000γ anomaly.				E.M. survey warranted.	Bedded felsic pyroclastic and volcaniclastic rocks containing sulphide occurrences. Rocks represent the westward extension of the hosts to the Osborne Cu-Zn massive sulphide- type deposit. Quartz-phyric felsic pyroclastic and volcaniclastic rocks and staurolitic greywacke and shale area straddles the McLeod Road Thrust.
90145	Snow Creek	Hudson Bay	1956		Loop Frame. 1 wk. condr. on 1 line.			The condr. has been drilled. (90146)	Nothing to cause the wk. condr.	No work warranted.	
90150	Herb Bay	Green Bay Mining & Expl.	1957			Radar magnetometer. No anomalies.					Greywacke and shale intruded by granodiorite and Ni-Cu bearing gabbroic intrusions.
90157	Herblet Lake	Gunnex Ltd.	1966				Turam. 660 Hz. Same condr. as other surveys.	The condrs. have previously been drilled.			Bedded, fragmental and quartz-phyric felsic pyroclastic rocks.

TABLE 9 — HERB LAKE AREA 63J/13 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	MINERALIZATION	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90158	Herblet Lake	S. Teal	1967				Turam. 660 Hz. Same condrs. as other surveys.	The condrs. have previously been drilled.	Diss. to near solid Py, Po, Cp.		Quartz-phyric felsic pyroclastic rocks and lithic arenite.
91499	Herblet Lake	Hudson Bay	1970				Turam. 660 Hz. Many long str. condrs.		Diss. base metals and visible Au in quartz veins and wall rocks.	More work warranted.	Amphibolite, lithic arenite and quartzofelspathic gneiss.
91575	Northwest corner of NTS 63J-13	Stall Lake Mines Ltd.	1971				DPM-1 Survey. No report.	Three holes have been drilled.	No sulphides. (tr. Cp in two holes).		Lithic arenite with amphibolite layers.
91593 91594	Snow Creek	Noranda Expl.	1965		Ronka Mark III. 2400 Hz. 2 str. condrs.			The condrs. have been drilled.	Northern condr. Po, Py. Southern condr. Gf.	No work warranted.	Massive Gf with diss. Py at andesite-greywacke contact. Best assays 0.4% Zn and 0.1% Cu over 6.5'.
91601	Herblet Lake	Stall Lake Mines	1971			Barringer GM-102. One anomaly of 500γ.	DPM-1. 510 Hz. Conductors are omitted.	Four holes have been drilled.	Po, Py.		Interlayered Py-Po with siltstone and greywacke and Cp specks over a max. of 12'. Adjacent to McLeod Road Thrust.

TABLE 9 — HERB LAKE AREA 63J/13 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	MINERALIZATION	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
92115	Herblet Lake	J. Foster Irwin	1972	McPhar SS1/5 1000 and 5000 Hz. Same condrs. as 90119.		McPhar M-700. One 200γ anomaly ass. with northern condr.	I.P. on 1 line. Anomaly coincides with E.M. condr.	Five holes drilled.	Py, tr. Cp in same holes.	No work warranted.	Mafic volcanic rocks (amphibolite) garnet-hornblende-quartz gneiss and quartzite. A 75' zone of quartz-hornblende gneiss with diss. Py, Po, Cp with max. assay of 0.12% Cu and 0.23% Zn.
92130	Herblet Lake	Fosco Mining	1970	480 & 1800 Hz. Same condrs. as 90119.		McPhar M-700. No anomalies.		Some of the condrs. have been drilled.	Diss. Py, Po.	More work warranted.	Lithic arenite with numerous rusty weakened and silicified portions. Many documented mineral occurrences.
92291	Herblet Lake	J. Foster Irwin		McPhar SS1/5 1000 and 5000 Hz. A few str. condrs.		McPhar M-700. No anomalies.	Huntec Mark III. IP on a few lines. Anomalies coincide with EM condrs.	Northern condr. has been drilled (92290).	Py, Po, Gf and tr. Cp. 0.29% Zn over 2.7' in one hole.	More work warranted on southern condrs.	Lithic arenite and quartz-phyric felsic pyroclastic and volcaniclastic rocks.
92343	Between Snow Lake and Herblet Lake 63J-13 and 63K-16				Max. Min. II 1777 Hz. Coil sep. 300'. 1 med. condr.			The condr. has been drilled.	Gf, Py.	No work warranted.	Pillowed basalt, fragmental felsic volcanic rocks and lithic arenite. A 24' section of graphitic schist with 5-10% Py. Assays 0.02% Cu, 0.03% Zn, 0.05 g/t Au and 0.5 g/t Ag.

TABLE 9 — HERB LAKE AREA 63J/13 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	MINERALIZATION	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90091	Dion Lake	Noranda	1965		Ronka Mark III. 2400 Hz. 1 str., 4 med. and 2 wk. condrs.			The str. and 2 med. condrs. have been drilled.	Cu intersections (up to 1.94% Cu over 0.9') in some holes. Northern hole Gf, Py.	Borehole geophysics warranted.	Garnetiferous clastic sed. rocks and mafic volcanic rocks intruded by biotite granite and pegmatite.
90092	Dion Lake	A.L. Parres	1968		Ronka. 876 Hz. Coil sep. 300'. No condrs.	MF-1. No anomalies.		Some holes drilled on radioactive anomalies (90093).	Gy, Po, Py.	No work warranted.	Garnetiferous rusty weathered clastic sed. rocks, mafic volcanic rocks and pegmatite.
91814	Crowduck Bay	Hudson Bay	1969		2400 Hz. Coil sep. 300'. 1 str. and 1 med. condr.			The str. condr. has been drilled. (No logs).		Work warranted on the med. condr.	Greywacke, arkose and conglomerate.
92101	Between Hat Lake and Hackett Lake	Green Point Mines	1969		ABEM. 3520 Hz. Coil sep. 300'. 3 str. and 5 med. condrs.	MF-1. One 1500γ and one 500γ anomaly. The 1500γ anomaly associated with the str. condr.		One med. condr. has been drilled (92711).	Graphitic argillite, Py.	More work warranted.	Predominantly greywacke and arkose with minor conglomerate. Thin persistent quartz porphyry intrusions, biotite granite and granite gneiss.
90108	Berry Bay	Hudson Bay	1955		Loop Frame. No condrs.					No work warranted.	Mafic pyroclastic and volcaniclastic rocks with minor felsic volcanic rocks. Multiple shears.

TABLE 9 — HERB LAKE AREA 63J/13 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	MINERALIZATION	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90124	Berry Bay	Hudson Bay	1955		Loop Frame. No condrs.					No work warranted.	Mafic pyroclastic and volcaniclastic rocks intruded by quartz-phyric tonalite.
90129	Berry Bay	Hudson Bay	1965				Turam. 660 Hz. A few str., med. and wk. condrs.	2 holes drilled on one str. condr.	1' of mass. Py. 0.3' with vis. Au.	More work warranted.	Mafic pyroclastic and volcaniclastic rocks and quartz-phyric felsic pyroclastic and volcaniclastic rocks. Diss. to solid Py.
91509	Herb Bay	Canadian Nickel	1966			MF-1. One trend of 3500γ.		3 holes drilled.	Gabbro.	More work warranted.	Gabbro and quartz diorite with minor greywacke and argillite. Ni-Cu- PGE potential.
91512	Herb Bay	Kennco Expl.	1964			ABEM torsion mag. Same trend as 91509.					
91514 91815 91816	Berry Bay	Alpha Mines	1968				Turam. Sharpe SE-700. 400 Hz. 1 str. to med. condr. in addition to same condrs. as 90119.	The condrs. have been drilled.	Northern condr. Py, Po.	No work warranted.	Mafic pyroclastic and volcaniclastic rocks intruded by quartz-phyric tonalite. Diss. Py, Po, Cp. Best intersection 1' of 20% Py.

TABLE 9 — HERB LAKE AREA 63J/13 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	MINERALIZATION	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90139	Snow Creek	Guardian Mines	1967				Turam. 660 and 220 Hz. 1 med. condr.			More work warranted.	Quartz-phyric felsic pyroclastic rocks straddling the McLeod Road Thrust. Diamond drilling documents diss. Po, 2' mass. Py and one 35' intersection Py, Po, Cp hosted by mafic volcanic rocks.
92749	NW of 63J-13	Hudson Bay	1984		Max. Min. II 1777 Hz. Coil sep. 400'. 1 wk. condr.					No work warranted.	Pink and light grey granitoid gneiss with thin mafic volcanic layers. Part of Herbiet Gneiss Dome.
92692	Crowduck Bay	Cangold	1982		Max. Min. II 444 and 1777 Hz. Coil sep. 100 m. No condrs.					No work warranted.	Predominantly granite with minor intermediate and mafic volcanic rocks.

TABLE 10 — BUZZ LAKE AREA 63J/12 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	MINERALIZATION	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
92429 92430	Wekusko Lake Grid 'A'	Manitoba Minerals	1978		EM-17. 1600 Hz. Coil sep. 400'. 1 str., 3 med. and 1 wk. condr.			2 med. condrs. drilled.	Eastern condr. mud seam. Northern condr. Gf, Py.	More work warranted.	Mafic and intermediate volcanic rocks with minor rhyolite tuff containing graphite-chlorite schist with 20-60% Gf and 10-25% Py.
	Grid 'B'				1 med. condr.					More work warranted.	Rhyolite and minor greywacke.
	Grid 'C'				1 med. condr.					More work warranted.	Greywacke.
	Grid 'D'				Max. Min. II 888 Hz. Coil sep. 600'. 2 str. condrs.			1 condr. has been drilled.	Up to 110' intersections of 40 to 60% Gf.	No work warranted.	
91410	Watts River	Testex Limited	1960		ABEM. 880 and 3520 Hz. Coil sep. 200'. No condrs.					VLF-EM survey warranted.	0.37 oz. Au over 3.4' in qtz. 0.63 oz. Au sample from dump.
91810	Buzz Lake	R.J. Jowsey Mining Company	1958				Turam (grounded Tx) OMIT SURVEY.	3 holes drilled on condr.	Barren.	EM survey warranted.	Acidic to intermediate intrusive rocks.
91822	Wekusko Lake Grid 'A'	Imperial Oil	1973			MF-2. No anomalies.	Turam. 660 Hz. 1 med. condr.	The condr. has been drilled.	Gf seds., Py.	No work warranted.	Dacite and greywacke.
	Grid 'B'					Anomalies of up to 3000γ.	1 long str. condr. with mag. ass.	Two holes drilled. (90573)	Gf seds., Py.	More work warranted.	Quartzite and lithic arkose, quartz porphyry, silicified, rusty

TABLE 10 — BUZZ LAKE AREA 63J/12 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	MINERALIZATION	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
	Grid 'C'					1000$_\gamma$ flanking mag. anomaly.	1 str. to med. condr.	The condr. has been drilled.	Gf, Py.		weathered and cut by 0.1-2.0 m quartz-carbonate veins. Greywacke and graphite argillite.
	Grid 'D'					1000$_\gamma$ flanking mag. anomalies.	1 med and 1 wk. condr.			More work warranted.	Dacite, diorite and quartz diorite.
	Wekusko Lake Grid						Many str., med. and wk. condrs.	Some of the condrs. have been drilled (no logs).			
90107	Wekusko Lake	Hudson Bay	1966		2400 Hz. Coil sep. 300'. Few wk. condrs.			Three condrs. drilled (91474). Many holes drilled on island. (90116)	Slate (91474) Up to 0.63% Cu over 0.5' and 1.17% Ni over 0.3' on island.		Greywacke and shale.
90581	West of Wekusko Lake	Frobisher Limited	1958		OMIT SURVEY		Long wire.	Three holes drilled.	Barren.	EM survey warranted.	Dolomite and minor quartz diorite and gabbro with diss. magnetite, Po, Cp.
90585	South of Wekusko lake	Parrex Mining	1957	SE-100.	OMIT SURVEY			Two holes drilled.	Barren.	EM survey warranted.	Zones of chlorite-talc schist developed within diorite intrusion.
90586	South of Wekusko Lake	Teck Expl. Co.	1958		Ronka. 876 Hz. Coil sep. 200'. 2 str. condrs.					More work warranted.	

TABLE 10 — BUZZ LAKE AREA 63J/12 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	MINERALIZATION	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90588	Wekusko Lake area	Kay Lake Mines	1956	1200 Hz. 2 med and 3 wk. condrs.		OMIT		Five holes drilled to test the condrs.	Cp, Py in one hole.		Diorite and gabbro with occasional diss. sulphide.
90589	Wekusko Lake area			1000 Hz. 1 med. condr. with mag. ass.		Sharp. 100γ/sc. div. One 2000γ anomaly.		One hole drilled to a depth of 100' vertical.	Diorite, tr. Py and tr. Cp.	More work warranted.	Quartz diorite and intermediate to mafic volcanic rocks, some sections serpentinized.
90590	Hayward Creek	Crowpat Minerals Ltd.	1956	No report. 1 str. and 2 med. condrs.				All the condrs. have been drilled.	Po.	No work warranted.	Quartz diorite and gabbro with some chlorite and carbonate alteration; chloritic and argillaceous greywacke.
90593	Hayward Creek	Inco	1966	No report. One str. and many med. condrs.		No report. One 2000γ anomaly.		Some of the condrs. have been drilled.	Barren.	More work warranted.	Intermediate to mafic volcanic rocks and quartz-feldspar porphyry intrusions.
90595 90596	Goose Bay	Falconbridge	1967			Barringer Mag. No anomalies.	Long wire AFMAG. A few med. condrs.	4 holes drilled.	Gf schist.	No work warranted.	Greywacke and argillite, with interlayered Gf, quartz-feldspar porphyry intrusions and intermediate to mafic volcanic rocks.

TABLE 10 — BUZZ LAKE AREA 63J/12 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	MINERALIZATION	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
90597	Goose Bay	R.G. Crosby	1954	No report. Same condrs. as 90596.		OMIT.		The condrs. have been drilled.	Gf schist.	No work warranted.	Thinly laminated siliceous and graphitic tuff, in part sheared; altered talc chlorite sections.
90600 90601 90602	Wekusko Lake	A.L. Parres	1966	SE-300. 1600 Hz. Coil sep. 400'. A few med. and wk. condrs.		MF-1. No anomalies.		Most of the condrs. have been drilled.	Eastern condrs.-fault zone. Western condr.-Gf, Py.	No work warranted.	Massive Gf developed within schistose, sheared and silicified rhyolite.
90607	Hayward Creek (cannot locate the Bob and Zen claims)	R.G. Crosby	1957	1000 Hz. One str. and 1 wk. condr.		Sharpe D1-M. No anomalies.				More work warranted.	Intermediate to mafic volcanic rocks with quartz- and feldspar-phyric intrusions.
91455	Hayward Creek Same as southern half of 90593.	Hudson Bay	1974		EM-17. 1600 Hz. Coil sep. 300'. Same condrs. as 90593.			The condrs. have previously been drilled.			Sericite rhyolite interlayered with Gf and cherty layers.
92424	Southwest 63J-12	Manitoba Minerals	1976		APEX-888 Hz. Coil sep. 600'.		Turam. 660 Hz.				
	Grid 'A'				1 med. condr.		1 wk. condr.	The condr. has been drilled.	Mudstone.	No work warranted.	
	Grid 'B'						No condrs.			No work warranted.	

TABLE 10 — BUZZ LAKE AREA 63J/12 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	MINERALIZATION	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
	Grid 'C'				EM-17. 1600 Hz. Coil sep. 400'. 2 str. and 3 med. condrs.			The condrs. have been drilled.	Py, Po, Gf.	No work warranted.	
			EM-17.		1600 Hz. Coil sep. 300'.						
	Grid 'D'				1 wk. condr.					No work warranted.	
	Grid 'E'				No condrs.					No work warranted.	
	Grid 'F'				1 str. and 3 wk. condrs.			Two wk. condrs. have previously been drilled. (90578)	Gf, Py.	The str. condr. should be drilled.	Sericite rhyolite tuff with interlayered Gf beds.
	Grid 'G'				1 med. condr.					More work warranted.	
92426 92427	Southwest 63J-12	Manitoba Minerals	1974		EM-17. 1600 Hz. Coil sep. 400'.					Diss. to near solid Po and Py within coarse grained quartzite.	2'-3' sections of graphitic schist interlayered with sheared rhyolitic flows and tuff; sections of talc-chlorite schist.
	Grid 'A'				1 str., 3 med. and 2 wk. condrs.			The condrs. have been drilled.	Po, Py in eastern and western condrs. Gf, Py, Po in central condrs.	No work warranted.	Coarse grained massive quartzite and greywacke with diss. to near solid Po and Py graphitic schists.
	Grid 'B'				4 str. and 4 med. condrs.			4 str. and 3 med. condrs. have been drilled.	Gf, Py, Po. Str. condrs. argillite (90577). Tr. Cp. in one hole.	More work warranted.	Zones of quartz-sericite schist, talc-chlorite schist and graphitic schist within rhyolite tuffs and flows.

TABLE 10 — BUZZ LAKE AREA 63J/12 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	MINERALIZATION	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
	Grid 'C'				1 wk. condr.		Turam. 660 Hz. 1 wk. condr.	The condr. has been drilled.	Gf.	No work warranted.	
92503	West of Wekusko Lake	Granges	1982		No report. 1 wk. condr.			The condr. has been drilled.	No mineral-ization. Kaolinized serp.	No work warranted.	Serpentinite.
90575 90576	Southwest 63J-12	Western Nuclear Mines Ltd.	1968, 1969	SE-300. 1600 Hz. No condrs.			Turam. 400 Hz. No condrs.			No work warranted.	
90578	Southwest of Wekusko Lake	Hudson Bay	1965-1966		No report. 2400 Hz. Coil sep. 300'. Same condrs. as 92424 Grid 'F'.					More work warranted on the str. and med. condrs.	
92017	Southwest 63J-12	Manitoba Minerals	1975		EM-17. 1600 Hz. Coil sep. 400'.		Turam.				
	Grid 'A'				1 wk. condr.		No condrs.			No work warranted.	
	Grid 'B'				2 str. condrs.			Both condrs. have been drilled.	Wide inter-sections of Gf with Py 1/4'' Cp stringer in one hole.	No work warranted.	Intermediate volcanic flows and tuff, in part containing rhyolite fragments; stringer and disseminated Cp in quartzite.
	Grid 'C'				2 str. condrs.			One condr. has been drilled.	90' inter-secton of Gf with Py.	More work warranted.	Sericite rhyolite with interbanded chlorite andesite and Gf.
	Grid 'D'				Nc condrs.	M-700. One 1000-γ anomaly.	Turam. 1 wk. condr.			No work warranted.	

TABLE 10 — BUZZ LAKE AREA 63J/12 — GROUND GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	MINERALIZATION	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
	Grid 'E'				1 str. condr.		Turam. 1 med. condr.	The EM condr. has been drilled.	Py, Gf.	No work warranted.	Finely laminated Py in Gf over 7'; developed within intermediate volcanic rocks.
	Grid 'F'				3 str. condrs.		Turam. 3 str. condrs.	Two condrs. have been drilled.	Eastern condr. Py, Gf. Western condr. Gf schist.	No work warranted.	Fine grained diss. and laminated Py in graphitic schist within inter- mediate volcanic rocks.
	Grid 'G'						Turam. 1 str., 6 med. and 4 wk. condrs.		N.E. condr.- 45' intersection of Py, Po, tr. Cp and 5' of 0.54% Zn. N.W. condr.-Py, Po, tr. Cp, tr. Sp. Str. condr.-intersections of Py, Gf. S.E. condrs. Py. S.W. condr. Py, Po, tr. Cp.	More work warranted.	Interlayered quartz-biotite-muscovite gneiss; sheared sections with 1' zones of 50-60% near solid Py and minor base metals.
90217	Grid 'H'	Manitoba Minerals	1975				Turam. 3 wk. condrs.			No work warranted.	
	Grid 'I'				No condrs. (92165)		Turam. 1 wk. condr.			No work warranted.	
	Grid 'J'				No condrs.	One 600γ anomaly.				No work warranted.	
92240	Southwest 63J-12	Canadian Nickel	1968			MF-1. 5 anomalies of 500 to 1200γ.				E.M. survey warranted.	

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CLASS FILE NO.	AREA	COMPANY	YEAR	VLEM	HLEM	MAG.	OTHER GEOPHYSICS	DRILLING	MINERALIZATION	COMMENTS ON GEOPHYSICS	COMMENTS ON GEOLOGY
92658	East of Wekusko Lake	Cangold	1981	EM-16. 1 wk. condr.						More work warranted.	
92656	Goose Bay	Hudson Bay	1975		EM-17. 1600 Hz. Coil sep. 300'. Same condrs. as 90593. Also 1 str. and 1 med. condr.			The 2 condrs. have been drilled. (92660)	Str. condr. graphitic argillite with Py, Po, tr. Sp. Med. condr. argillite.	No work warranted.	Graphitic and cherty argillite containing diss. and veinlet sulphide; local silicification or carbonate alteration within sedimentary rocks.

TABLE 11 — 63K (North Half) 63J — 12, 13 — AIRBORNE GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	ALTITUDE	LINE SPACING	E.M.	MAG.	GROUND GEOPHYSICAL FOLLOW-UP	COMMENTS
90006 A.P. 24	Precambrian-Paleozoic contact south of Wekusko Lake S.E. portion of 63K-9	Falconbridge-Nickel	1959	Helicopter Bird 100'.	1 mile.		The mag. data are not presented in the compilation as the trends are similar to those shown on the base maps.		The geologic interpretation from the map data is presented. Also some depth estimates to the basement are included.
90008 A.P. 26 91624 A.P. 19	Reed Lake to Squall Lake 63K-9, 10, 15, 16	Canadian Nickel	1959	Aircraft 500' (Personal communication)	1/4 mile.	No report - No specs. All condrs. same as other surveys.			A few of the condrs. associated with mineralization not picked up — including Reed Lake deposit and Canadian Freeport.
90237	Tramping Lake 63K-9	Midrim Mining	1956	Aircraft 500'	1/8 mile	400 & 2300 Hz. Large horizontal TX. in aircraft, RC. in bird. Ratio of low/high frequency out-of-phase recorded. Long str. condrs. within lake with flanking mag. anomalies.	Many regional mag. trends of between 200 to 1000γ.	Ground follow-up warranted on condrs. 1, 2, 3, 4, 5 & 6.	Depth of investigation = 200'.
90281	Barb Lake 63K-10	Hudson Bay	1970	Helicopter 200'. Bird 100'	1/8 mile	4000 Hz. TX. & RC. vertical co-axial in bird. coil sep. 20'. In-phase and out-of- phase recorded. 2 wk. condrs.		Both condrs. have been outlined by ground geophysics. No ground follow-up warranted.	Depth of investigation = 100'.
90350	Athapapuskow Lake 63K-12	Cerro Mining	1971	Aircraft 400' Bird 150'	1/8 mile	Input. Many str. condrs.		No ground follow-up warranted.	

TABLE 11 — 63K (North Half) 63J — 12, 13 — AIRBORNE GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	ALTITUDE	LINE SPACING	E.M.	MAG.	GROUND GEOPHYSICAL FOLLOW-UP	COMMENTS
90396	Kisseynew Lake 63K-13, 14	Hudson Bay	1960	Helicopter 200'. Bird 100'	1/8 mile	4000 Hz. TX. & RC. vertical coaxial in bird. coil sep. 20'. In-phase and out-of-phase recorded. Many med. and wk. condrs.		Ground follow-up warranted on condrs. 35 and 36.	The lake bottom sediments and contacts seem to strongly influence this system.
91564 A.P. 116	Neso Lake, Lucille Lake 63K-11, 12, 14	Falconbridge Nickel	1973	EM bird 135' Mag. bird 195'	1/8 mile	Aerodat — 918 Hz., coil sep 30'. Vertical coaxial coupled. Many long str. condrs. with no mag. assoc.	Barringer AM-104 proton precession. A few anomalies of 300γ.	No ground follow-up warranted.	
	Iskwasum Lake, Elbow Lake 63K-10, 11, 15					Many long str. and med. condrs. in the Elbow Lake area. Many wk. condrs. in the Iskwasum Lake area. (All the condrs. from 91854 have been picked up).	Many strong mag. trends up to 2000 γ in the Iskwasum Lake area.	Ground follow-up warranted on condrs. 38 and 39.	
	Wekusko Lake 63J-12, 13					Many str., med. and wk. condrs.		Ground follow-up warranted on condrs. 1 & 2 on 63J-13.	

TABLE 11 — 63K (North Half) 63J — 12, 13 — AIRBORNE GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	ALTITUDE	LINE SPACING	E.M.	MAG.	GROUND GEOPHYSICAL FOLLOW-UP	COMMENTS
91619 A.P. 10	Morton Lake, Reed Lake 63K-9, 10, 15, 16	Hudson Bay	1955	Aircraft 500' Bird 250'	1/8 mile	400 & 2300 Hz. Large horizontal TX. in aircraft, RC. in Bird. Ratio of low/high frequency out-of-phase recorded. Many str., med. and wk. condrs., most of them coinciding with 91693.		No ground follow-up warranted.	
91822	Wekusko Lake 63J-12	Imperial Oil	1972	Aircraft 400' Bird 150'	1/8 mile	Input Mark VI. A few med. condrs.		Ground follow-up has been carried out.	
91650 A.P. 54	Tramping Lake 63K-9, 16	Hudson Bay	1965	Helicopter 200', Bird 100'	1/8 mile	4000 Hz. TX. & RC. vertical coaxial in bird, coil sep. 20' A few str., med. and wk. condrs. coinciding with 90237.		Ground follow-up up of condr. #3, 5 and 6 warranted.	
	Wekusko Lake 63J-12, 13					Many str., med. and wk. condrs.		Ground follow-up of condrs. 3 to 8 warranted on 63J-13.	
91661 A.P. 67	Reed Lake 63K-9, 10	Hudson Bay	1968	Helicopter 200'. Bird 100'	1/8 mile	4000 Hz. TX. & RC. vertical coaxial in bird, coil sep. 20'. In-phase and out-of-phase recorded. Many str., med. and wk. condrs.		Follow-up of condrs. 9, 10, 11 and 16 warranted.	The Reed Lake deposit and Canadian Freeport deposit were not picked up. Many condrs. from 91619 and 91693 were not picked up.

TABLE 11 — 63K (North Half) 63J — 12, 13 — AIRBORNE GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	ALTITUDE	LINE SPACING	E.M.	MAG.	GROUND GEOPHYSICAL FOLLOW-UP	COMMENTS
91693 A.P. 102	Morton Lake, Reed Lake 63K-9, 10, 15, 16	Noranda Expl.	1972	Aircraft 200' Bird 150'	1000'	Input. Many str., med. and wk. condrs., some with mag. association.	Barringer A.M-104 proton precession. Many trends of 400γ.		
91700 A.P. 109	Embury Lake - Alberts Lake 63K-11, 12, 13, 14	Hudson Bay	1973	Aircraft 300' to 400'	1/8 mile	1185 Hz., (EM-30). TX — vertical with axis parallel to flight direction in nose of aircraft. RC — 3 coils in bird. In-phase and out-of-phase recorded. Many med. and wk. condrs.		Ground follow-up warranted on condrs. 30, 31 and 34 (63K-12 & 13).	
91707	Precambrian-Paleozoic contact and south 63K-9, 10, 11, 12	Parmlee Mining	1957	Aircraft 400'	1/4 mile	Aerophysics — 140 Hz. Vertical coplanar max. coupled, coil sep. 500'. Out-of-phase and total field recorded. 1 str., many med. and wk. condrs.	The mag. data have not been presented as the trends are the same as shown on the base maps.	Ground follow-up warranted on med. condrs. in Simonhouse Lake and western part of Athapapuskow Lake.	
91708 A.P. 16	Covers the Precambrian-Paleozoic contact from the Sask./ Manitoba border to Wekusko Lake.	Parrex Syndicate	1956	Aircraft 500'	1/4 mile	400 & 2300 Hz., E.M. was carried out but results not included in report.	The mag. data are not presented in the compilation as the trends are similar to those shown on the base maps.		

TABLE 11 — 63K (North Half) 63J — 12, 13 — AIRBORNE GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	ALTITUDE	LINE SPACING	E.M.	MAG.	GROUND GEOPHYSICAL FOLLOW-UP	COMMENTS
91854	Barb Lake, Iskwasum Lake, Loucks Lake 63K-10, 11, 15	Hudson Bay	1964	Helicopter 200'. Bird 100'	1/8 mile	4000 Hz. TX. & RC. vertical coaxial in bird, coil sep. 20'. In-phase and out-of-phase recorded. Many wk. condrs.		No ground follow-up warranted.	The lake bottom sediments and contacts seem to strongly influence this system.
91963	Morgan Lake 63K-9, 16	Granges Expl.	1974	Aircraft 400' Bird 150'	1/8 mile	Input Mark IV. 2 med. condrs. with 300γ mag. association	Barringer AM-104 proton precession. 3 anomalies of approximately 300γ.	Ground follow-up has been carried out.	
92019 A.P. 112	Tramping Lake-Morgan Lake 63K-9, 16	Granges Expl.	1973	Aircraft 400' Bird 150'	1/4 mile	Input Mark VI. Many str., med. and wk. condrs. Some are the same as 91650, 91963, 90237 and 91661.	Barringer AM-104 proton precession. (The mag. peak is not contoured).	Ground follow-up warranted on condr. 7.	
92017 92018 92021 92054 92426	Wekusko Lake 63J-12	Manitoba Minerals	1973	Aircraft 400' Bird 150'	600'	Input Mark VI. Many long med. to wk. condrs.	Barringer proton precession. Most of the condrs. have mag. association.	Many condrs. have been followed up on the ground. Ground follow-up warranted on the remaining condrs.	
92020 A.P. 114	Nearly the whole of the Flin Flon -Snow Lake Belt 63K-11, 12, 13 14, 15, 16	Sherritt Gordon	1973-1974	Aircraft 400' -450', Bird 325-375'	1/4 mile	Modified Hunting Type, 390 & 1700 Hz. TX horizontal on aircraft, RC vertical on bird. Low frequency out-of-phase and low/high frequency out-of-phase ratio recorded.	Proton precession.	Ground follow-up warranted on condrs. 23 to 29 (63K-11), 37 (63K-14), 40 (63K-15), 41 to 47 (63K-16).	The Centennial orebody was not picked up.

TABLE 11 — 63K (North Half) 63J — 12, 13 — AIRBORNE GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	ALTITUDE	LINE SPACING	E.M.	MAG.	GROUND GEOPHYSICAL FOLLOW-UP	COMMENTS
92021 A.P. 113	Tramping Lake 63K-9	Manitoba Minerals	1974	Aircraft 400' Bird 150'	600'	Input Mark VI. 1 med. condr.		Ground follow-up warranted on condr.	
92024	Simonhouse Lake 63K-10, 11	Manitoba Minerals	1972	Aircraft 400' Bird 150'	1/4 mile	Input Mark V. 1 long str. and 4 med. condrs.	Barringer AM-104 proton precession. All the condrs. have mag. association.	Ground follow-up of condr. 19 and 20 warranted.	
92472	Simonhouse Lake, Iskwasum Lake	Canadian Nickel	1981	Aircraft 400'	1200'	285, 712, 1215 Hz. TX in aircraft, RC in bird. Most of the condrs. same as other surveys.	Geometrics model 803 proton precession.		
92473	Athapapuskow Lake	Canadian Nickel	1980	Aircraft 400'	1200'	Same as above. Most of the condrs. same as other surveys.	Same as above.		
92423	Kisseynew Lake 63K-13, 14	Cominco		Aircraft 400'	1200'	Input Mark VI. Many str., med and wk. condrs.	Sonotek proton magnetometer. Many mag. trends.	Ground follow-up of the condrs. with short strike lengths warranted.	
92125	Mikanagan Lake 63K-13	Granges	1974	Aircraft 400'	660'	Input Mark VI. Same condrs. as from other surveys.	Barringer proton precession.		

TABLE 11 — 63K (North Half) 63J — 12, 13 — AIRBORNE GEOPHYSICS — OPEN FILE

CLASS FILE NO.	AREA	COMPANY	YEAR	ALTITUDE	LINE SPACING	E.M.	MAG.	GROUND GEOPHYSICAL FOLLOW-UP	COMMENTS
92130	Herblet Lake 63K-16 63J-13	Fosco Mining	1971	Helicopter 200', Bird 100'	1/8 mile	Lockwood LHEM. 4000 Hz. TX. & RC. vertical coaxial in bird, coil sep. 30'. In-phase and out-of-phase recorded. Many str., med. and wk. condrs.	Gulf MK III.	Ground follow-up has been carried out.	

Appendix A

GROUND GEOPHYSICAL INSTRUMENTS USED IN THE FLIN FLON-SNOW LAKE AREA

Vertical Loop E.M. Units

Manufacturer	Frequency (Hz)	Max. Coil Sep. (ft.)	Transmitter Power (amp. turns inm²)
ABEM Demigun	880/3520	500	50 inm² at 3520 20 inm² 880
ABEM E.M. Gun	880/3520	400	50 inm² at 3520 14 inm² at 880
Crone CEM	390/1930/5010	600	45 inm² at 390 30 inm² at 1830 18 inm² at 5010
Crone JEM	480/1800	400	18 inm² at 480 9 inm² at 1800
McPhar MS 1000	1000	5000	2460 inm² at 1000
McPhar REM	1000/5000	600	72 inm² at 1000 31.5 inm² at 5000
Sharpe SE-300	400/1600	1000	36 inm² at 400 30 inm² at 1600
Max. Min. II	222, 444, 888, 1777 and 3555	900	200 inm² at 444 120 inm² at 888 60 inm² at 1777

Horizontal Loop E.M. Units

ABEM Demigun	880/3520	500	50 inm² at 3520 20 inm² at 880
ABEM E.M. Gun	880/3520	300	50 inm² at 3520 14 inm² at 3520
ABEM Demigun (1977)	880/2640	550	20 inm² at 2640 50 inm² at 880
ABEM E.M. Gun (1977)	880/2640	300	—
Geonics E.M.-17	1600	400	25 inm² at 1600
Loop Framr	3600	200	—
Ronka M.K. III	876/2400	300	—
Max. Min. II	222, 444, 888, 1777 and 3555	750	200 inm² at 444 120 inm² at 888 60 inm² at 1777 30 inm² at 3555

Other Geophysical Units

ABEM Turam	220/660	300 watts
McPhar AFMAG	130/475	Not Applicable
Sharpe Turam	200/400/800	180 watts 500 watts

Ref.: Articles by P. Hood — (Canadian Mining Journal — 1972, 1977 and 1982)

Appendix B

ABBREVIATIONS

Mineralization

Asp	arsenopyrite
Ch	chlorite
Cp	chalcopyrite
Cu	copper
Fe	iron
Gf	graphite
Hem	hematite
Hb	hornblende
Lm	limonite
Mag	magnetite
Mg	magnesium
Ni	nickel
Pb	lead
Po	pyrrhotite
Py	pyrite
Sp	sphalerite
Zn	zinc

Extent and Nature of Mineralization

tr	trace
N.S.	nearly solid
N.S.S.	nearly solid sulphide
'	foot (feet)
''	inch(es)
diss.	dissemination
mass.	massive

Geophysical

amp.	amperes
assoc.	association
condrs.	conductors
E.M.	electromagnetic
freq.	frequency
hz	hertz
inm^2	ampere turns $metres^2$
mag.	magnetic
med.	medium
RC.	receiver
sc.div.	scale division
sen.	sensitivity
sep.	separation
specs.	specifications
str.	strong
TX.	transmitter
wk.	weak
γ	gamma(s)
VLEM	vertical loop electromagnetic survey
HLEM	horizontal loop electromagnetic survey

Miscellaneous

blk.	(claim) block
D.D.H.	diamond drill hole
M.M.B.	Manitoba Mines Branch
M.R.D.	Mineral Resources Division
CLASS file	claims assessment file
int.	intersection

MAPS
NOT
FILMED

CARTES
OMISES